

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 4/3/2017 Revision date: 4/3/2017 Version: 1.00

1.1.	SECTION 1: Identification of the substance/mixture and of the company/undertaking		
Trade name		: Microtiter-Plate coated with antigen (teststrips); lyophilised; Microtiter-Plate coated with control- antigen (reference strips); lyophilised	
Article	number	: ECXXX.01, ECXXXA01, ECXXXG01, ECXXXM01, DCXXX.01, UECXXXA01, UECXXXG01, ECXXXM02	
1.2.	Relevant identified uses of the subs	stance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Use of	the substance/mixture	: In vitro diagnostics	
1.2.2.	Uses advised against		
No add	litional information available		
1.3.	Details of the supplier of the safety	data sheet	
Löwen 65428 T +49 (h Diagnostics GmbH	Email competent person sds@kft.de	
1.4.	Emergency telephone number		
	Emergency number : National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111 National Health Service (NHS) 24 hour national number consumer		
		England and Scotland: 111 Wales: 0845 46 47	
		Northern Ireland: call your local General Practitioner	
		Call 999 if there is a life-threatening incident.	
SECT	TON 2: Hazards identification		
2.1.	Classification of the substance or m	nixture	
Classi Not cla	fication according to Regulation (EC) N	lo. 1272/2008 [CLP]	
Adver	se physicochemical, human health and	environmental effects	
	knowledge, this product does not present	any particular risk, provided it is handled in accordance with good occupational hygiene and safety	
2.2.	Label elements		

EUH-statements

: EUH210 - Safety data sheet available on request EUH208 - Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	(CAS-No.) 1185-53-1 (EC-No.) 214-684-5	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation First-aid measures after skin contact	Remove person to fresh air and keep comfortable for breathing.Wash skin with plenty of water.			
First-aid measures after eye contact First-aid measures after ingestion	Rinse eyes with water as a precaution.Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effe	cts, both acute and delayed			
Symptoms/effects after skin contact	: May cause an allergic skin reaction.			
4.3. Indication of any immediate medica	al attention and special treatment needed			
Treat symptomatically.				
SECTION 5: Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.			
Unsuitable extinguishing media	: No information available.			
5.2. Special hazards arising from the su	Special hazards arising from the substance or mixture			
Hazardous decomposition products in case of fire	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.			
5.3. Advice for firefighters				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
Other information	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.			
SECTION 6: Accidental release mea	isures			
6.1. Personal precautions, protective ed	quipment and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

6.3. Methods and material fe	or containment and cleaning up			
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sect	ions			
Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.				
SECTION 7: Handling and storage				
7.1. Precautions for safe ha	ndling			
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.				
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe sto	rage, including any incompatibilities			
Storage conditions : Store in a well-ventilated place. Keep cool.				
Storage conditions				
7.3. Specific end use(s)				

In vitro diagnostics.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Use protective clothing

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release:

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	I chemical properties		
Physical state	: Solid		
Colour	: Transparent.		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: Not applicable		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not determined.
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available)
Serious eye damage/irritation	: Not classified (No data available)
Respiratory or skin sensitisation	: Not classified (No data available)
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product has not been tested. 12.2. Persistence and degradability Microtiter-Plate coated with antigen (teststrips); lyophilised; Microtiter-Plate coated with control-antigen (reference strips); lyophilised Persistence and degradability No additional information available. **Bioaccumulative potential** 12.3 Microtiter-Plate coated with antigen (teststrips); lyophilised; Microtiter-Plate coated with control-antigen (reference strips); lyophilised Bioaccumulative potential No additional information available 12.4. Mobility in soil Microtiter-Plate coated with antigen (teststrips); lyophilised; Microtiter-Plate coated with control-antigen (reference strips); lyophilised Ecology - soil No additional information available. Results of PBT and vPvB assessment 12.5 Microtiter-Plate coated with antigen (teststrips); lyophilised; Microtiter-Plate coated with control-antigen (reference strips); lyophilised This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII 12.6. Other adverse effects Other adverse effects : No additional information available. **SECTION 13: Disposal considerations** Waste treatment methods 13.1. Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Product/Packaging disposal recommendations : Comply with local regulations for disposal. **SECTION 14: Transport information**

In accordance with ADB / BID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN numbe	er			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport	hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environm	I.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations	and acronyms:	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen s	ur le transport des marchandises dangereuses par Route (European Agreement concerning the age of Dangerous Goods by Road)
BCF	Bioconcentration fa	
CLP	Classification Labe	Iling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Code for Dangerous Goods	
LC50	Median lethal cond	entration
LOAEL	Lowest Observed	Adverse Effect Level
NOAEC	No-Observed Adve	erse Effect Concentration
NOAEL	No-Observed Adve	erse Effect Level
NOEC	No-Observed Effe	ct Concentration
PBT	Persistent Bioaccu	
PNEC	Predicted No-Effect	t Concentration
RID	Regulations conce	rning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment	
vPvB	Very Persistent an	d Very Bioaccumulative
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department iss	suing data specification	n sheet: : KFT Chemieservice GmbH
-1	3 · · · · · · · · · · · ·	Im Leuschnerpark. 3 64347 Griesheim
		Postfach 1451 64345 Griesheim
		Germany
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person :		: Dr. Faiza Khan
	and EUH-statements:	
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2
Skin Irrit. 2		Skin corrosion/irritation, Category 2
STOT SE 3		Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
EUH208	Contains . May produce an allergic reaction
EUH210	Safety data sheet available on request

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Trade name	: Tetramethylbenzidine substrate solution (3,3',5,5'-TMB)		
Article number	: 151101, U151101		
Synonyms	: [SUBS]		
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Use of the substance/mixture	: In vitro diagnostics		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety	data sheet		
Supplier	Email competent person		
Virotech Diagnostics GmbH sds@kft.de			
Löwenplatz 5 65428 Rüsselsheim - Deutschland T +49 6142-69090			
			gualitymanagement@virotechdiagnostics.com
1.4. Emergency telephone number			
Emergency number : National Poison Information Service (NPIS)			
	24 hour national number professionals only		
0844 892 0111			
	National Health Service (NHS)		
	24 hour national number consumer England and Scotland: 111		
	Wales: 0845 46 47		
	Northern Ireland: call your local General Practitioner		
	Call 999 if there is a life-threatening incident.		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]		
Not classified			
Adverse physicochemical, human health and	environmental effects		
May cause an allergic skin reaction.			
2.2. Label elements			
l abelling according to Regulation (EC) No. 10	272/2008 [C] P]		
Labelling according to Regulation (EC) No. 1272/2008 [CLP]			

EUH-statements

: EUH208 - Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction EUH210 - Safety data sheet available on request

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: No information available.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of fire	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective ec	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Avoi	d sub-soil penetration.
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
Information for safe handling. See section 7. Co section 13.	ncerning personal protective equipment to use, see section 8. For further information refer to
SECTION 7: Handling and storage	

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Hygiene measures

: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

In vitro diagnostics.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Colour	: colourless.	
Odour	: odourless.	
Odour threshold	: No data available	
рН	: 5-5.1	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Water: Soluble	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available.	
Oxidising properties	: Non oxidizing.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Explosive limits

: No data available

9.2. Other information No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity	: Not classified (No data available)	
Skin corrosion/irritation	: Not classified (No data available) pH: 5 - 5.1	
Serious eye damage/irritation	: Not classified (No data available) pH: 5 - 5.1	
Respiratory or skin sensitisation	: Not classified (No data available)	
Germ cell mutagenicity	: Not classified (No data available)	
Carcinogenicity	: Not classified (No data available)	
Reproductive toxicity	: Not classified (No data available)	
STOT-single exposure	: Not classified (No data available)	
STOT-repeated exposure	: Not classified (No data available)	
Aspiration hazard	: Not classified (No data available)	

SECTION 12: Ecological information			
12.1.	Toxicity		
Ecology -	- general	: The product has not been tested.	
12.2.	Persistence and degradability		
Tetramet	thylbenzidine substrate solution (3,	3',5,5'-TMB)	
	nce and degradability	No additional information available.	
12.3.	Bioaccumulative potential		
Tetramet	thylbenzidine substrate solution (3,	3',5,5'-TMB)	
Bioaccun	nulative potential	No additional information available.	
12.4.	12.4. Mobility in soil		
Tetramet	Tetramethylbenzidine substrate solution (3,3',5,5'-TMB)		
Ecology -	- soil	No additional information available.	
12.5. Results of PBT and vPvB assessment			
Tetramet	Tetramethylbenzidine substrate solution (3,3',5,5'-TMB)		
	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Other adverse effects

Other adverse effects

: No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

: Disposal must be done according to official regulations. European waste catalogue. : Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gr	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards		·	·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	n available	

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

Transport in bulk according to Annex II of Marpol and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

National regulations 15.1.2.

No additional information available

15.2. Chemical safety assessment

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 16: Other information

Abbreviations	and acronyms:			
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)			
ADR		Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
BCF	Bioconcentration fa	ctor		
CLP	Classification Labe	Iling Packaging Regulation; Regulation (EC) No 1272/2008		
DNEL	Derived-No Effect			
EC50	Median effective co	oncentration		
ΙΑΤΑ	International Air Tra	ansport Association		
IMDG	International Mariti	me Code for Dangerous Goods		
LC50	Median lethal conc	entration		
LOAEL	Lowest Observed A	Adverse Effect Level		
NOAEC	No-Observed Adve	erse Effect Concentration		
NOAEL	No-Observed Adve	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect	No-Observed Effect Concentration		
PBT	Persistent Bioaccu	mulative Toxic		
PNEC	Predicted No-Effec	Predicted No-Effect Concentration		
RID	Regulations conce	Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP	Sewage treatment	Sewage treatment plant		
vPvB	Very Persistent and	d Very Bioaccumulative		
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.		
Department is	suing data specification	n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522		
Contact person		: Dr. Faiza Khan		
Other information				
Full text of H-	and EUH-statements:			
EUH208		Contains . May produce an allergic reaction		
		Safety data sheet available on request		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Citrate-Stopping Solution Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name	: Citrate-Stopping Solution
Article number	: 141101, U141101
Synonyms	: [STOP]
1.2. Relevant identified uses of	the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the supplication of the supplicati	ne safety data sheet
Supplier Virotech Diagnostics GmbH Löwenplatz 5 65428 Rüsselsheim - Deutschland T +49 6142-69090 gualitymanagement@virotechdiagnost	Email competent person sds@kft.de
1.4. Emergency telephone num Emergency number	: National Poison Information Service (NPIS)
	24 hour national number professionals only 0844 892 0111
	National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner
	Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identifie	cation
2.1. Classification of the subst	ance or mixture
Classification according to Regulati Corrosive to metals, Category 1 Serious eye damage/eye irritation, Cat Full text of hazard classes and H-state	H290 egory 2 H319
Adverse physicochemical, human h Causes severe skin burns and eye dar	
2.2. Label elements	
Labelling according to Regulation (I	EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS05
Signal word (CLP) Hazard statements (CLP)	: Warning : H290 - May be corrosive to metals H319 - Causes serious eye irritation

Citrate-Stopping Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)	 P234 - Keep only in original container P280 - Wear eye protection, face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P390 - Absorb spillage to prevent material damage
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2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
citric acid, monohydrate	(CAS-No.) 5949-29-1 (EC-No.) 201-069-1	20 - 25	Eye Irrit. 2, H319
sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20-xxxx	1 - 2.5	Skin Corr. 1A, H314
Hydrochloric acid (Note B)	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27-xxxx	0.1 - 1	Skin Corr. 1B, H314 STOT SE 3, H335 Met. Corr. 1, H290

Specific concentration limits:

Name	Product identifier	Specific concentration limits
sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) 01-2119458838-20-xxxx	(5 = <c 15)="" 2,="" <="" eye="" h319<br="" irrit.="">(5 =<c 15)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 15) Skin Corr. 1A, H314</c></c>
Hydrochloric acid	(CAS-No.) 7647-01-0 (EC-No.) 231-595-7 (EC Index-No.) 017-002-01-X (REACH-no) 01-2119484862-27-xxxx	(C >= 0.1) Met. Corr. 1, H290 (C >= 10) STOT SE 3, H335 (10 = <c 2,="" 25)="" <="" eye="" h319<br="" irrit.="">(10 =<c 2,="" 25)="" <="" h315<br="" irrit.="" skin="">(C >= 25) Skin Corr. 1B, H314</c></c>

Note B : Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Full text of H-statements: see section 16

nediately.
resh air and keep comfortable for breathing.
er/shower. Remove/Take off immediately all contaminated clothing. Call a ely.
h water for several minutes. Remove contact lenses, if present and easy to . Call a physician immediately.
t induce vomiting. Call a physician immediately.
ayed
eyes.

Treat symptomatically.

Citrate-Stopping Solution Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 5: Eiro fightig				
SECTION 5: Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.			
Unsuitable extinguishing media	itable extinguishing media : No information available.			
5.2. Special hazards ari	sing from the substance or	nixture		
Hazardous decomposition proc		of harmful/irritant gases/vapours. Carbon dioxide (CO2). Carbon dioxide. Hydrogen		
fire	chloride	Sulphur oxides.		
5.3. Advice for firefighte	ers			
Protection during firefighting		ttempt to take action without suitable protective equipment. Self-contained breathing		
Other information		us. Complete protective clothing. sed containers exposed to fire with water spray. Do not allow run-off from fire fighting to		
		ains or water courses.		
SECTION 6: Accidenta	i release measures			
6.1. Personal precautio	ns, protective equipment an	d emergency procedures		
6.1.1. For non-emergency	y personnel			
Emergency procedures	: Ventilate	e spillage area. Avoid contact with skin and eyes.		
6.1.2. For emergency res	ponders			
Protective equipment	•	ttempt to take action without suitable protective equipment. For further information		
		section 8: "Exposure controls/personal protection".		
6.2. Environmental pred	cautions			
Prevent entry to sewers and p	ublic waters. Avoid sub-soil pe	netration.		
6.3. Methods and mater	rial for containment and clea	ning up		
Methods for cleaning up		liquid spill into absorbent material.		
Other information	•	of materials or solid residues at an authorized site.		
6.4. Reference to other				
section 13.	See section 7. Concerning per	sonal protective equipment to use, see section 8. For further information refer to		
SECTION 7: Handling a	and storage			
7.1. Precautions for saf	e handling			
Precautions for safe handling		good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe le/gas/mist/vapours/spray. Wear personal protective equipment.		
Hygiene measures		ontaminated clothing before reuse. Do not eat, drink or smoke when using this product.		
	Always	wash hands after handling the product.		
7.2. Conditions for safe	storage, including any inco	mpatibilities		
Storage conditions		cked up. Store in a well-ventilated place. Keep cool.		
ů.		······································		
7.3. Specific end use(s)				
No additional information avail				
SECTION 8: Exposure	SECTION 8: Exposure controls/personal protection			
8.1. Control parameters				
Hydrochloric acid (7647-01-0)				
EÚ	Local name	Hydrogen chloride		
EU EU	IOELV TWA (mg/m³) 8 mg/m³ IOELV TWA (ppm) 5 ppm			
EU	IOELV TWA (ppm) IOELV STEL (mg/m ³)	15 mg/m ³		
EU	IOELV STEL (ppm) 10 ppm			
United Kingdom United Kingdom				
United Kingdom	ited Kingdom WEL TWA (ppm) 1 ppm gas and aerosol mists			
United Kingdom	Kingdom WEL STEL (mg/m³) 8 mg/m³ gas and aerosol mists			
United Kingdom sulphuric acid (7664-93-9)				
EU Local name Sulphuric acid (mist)				
EU	IOELV TWA (mg/m ³)	0.05 mg/m ³		
3/15/2017	GB - e	n 3/8		

Citrate-Stopping Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

United Kingdom	Local name	Sulphuric acid
United Kingdom	WEL TWA (mg/m ³)	0.05 mg/m ³ mist
United Kingdom	Remark (WEL)	The mist is defined as the thoracic fraction

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Use protective clothing

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: colourless.		
Odour	: No data available		
Odour threshold	: No data available		
рН	: < 1.2 (20 °C)		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature : No data available			
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Water: Soluble		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties : No data available			
Oxidising properties	: Non oxidizing.		
Explosive limits	: No data available		
9.2. Other information			

9.2. Other information

Other properties

: This product is corrosive to metals.

Citrate-Stopping Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
May be	May be corrosive to metals.		
10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dang	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		
Strong bases. May be corrosive to metals.			
10.6.	Hazardous decomposition products		
Hydrogen chloride.			

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: < 1.2 (20 °C)
Serious eye damage/irritation	: Causes serious eye irritation. pH: < 1.2 (20 °C)
Respiratory or skin sensitisation	: Not classified (No data available)
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information 12.1. Toxicity Ecology - general : The product has not been tested. 12.2. Persistence and degradability Citrate-Stopping Solution Persistence and degradability No additional information available. 12.3. **Bioaccumulative potential Citrate-Stopping Solution** Bioaccumulative potential No additional information available. 12.4. Mobility in soil **Citrate-Stopping Solution** No additional information available. Ecology - soil

12.5. Results of PBT and vPvB assessme	nt	
Citrate-Stopping Solution		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Component		
citric acid, monohydrate (5949-29-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

Citrate-Stopping Solution Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

12.6. Other adverse effects	
Other adverse effects : No additional information available.	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods Product/Packaging disposal recommendations	Disposal must be done according to official regulations. European waste catalogue.Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
1789	1789	1789	1789	1789
14.2. UN proper shi	pping name	÷	·	
HYDROCHLORIC ACID	HYDROCHLORIC ACID	Hydrochloric acid	HYDROCHLORIC ACID	HYDROCHLORIC ACID
Transport document de	escription			
UN 1789 HYDROCHLORIC ACID, 8, III, (E)	UN 1789 HYDROCHLORIC ACID, 8, III	UN 1789 Hydrochloric acid, 8, III	UN 1789 HYDROCHLORIC ACID, 8, III	UN 1789 HYDROCHLORIC ACID, 8, III
14.3. Transport haz	ard class(es)			
8	8	8	8	8
8	8	8	8	8
14.4. Packing grou	0			
111	111		III	III
14.5. Environmenta	l hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	No	supplementary information a	vailable	

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: C1
Special provisions (ADR)	: 520
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Transport category (ADR)	: 3
Hazard identification number (Kemler No.)	: 80
Orange plates	80 178
Tunnel restriction code (ADR)	: E
EAC code	: 2R
- Transport by sea	
Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B

Citrate-Stopping Solution

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

- Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3
- Inland waterway transport		
Classification code (ADN)	:	C1
Special provisions (ADN)	:	520
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
- Rail transport		
Classification code (RID)	:	C1
Special provisions (RID)	:	520
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Transport category (RID)	:	3
Hazard identification number (RID)	:	80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive	Hydrochloric acid - sulphuric acid
1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set	
out in Annex I to Regulation (EC) No 1272/2008	
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or	Citrate-Stopping Solution - Hydrochloric acid -
categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7	sulphuric acid
adverse effects on sexual function and fertility or on development, 3.8 effects other than	
narcotic effects, 3.9 and 3.10	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the fol	lowing substances of this mixture a chemical safety assessment has been carried out
sulphuric a	cid
SECTIO	N 16: Other information
Abbreviatio	ons and acronyms:
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods

Citrate-Stopping Solution Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

LC50	LC50 Median lethal concentration		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP	Sewage treatment plant		
vPvB	Very Persistent and Very Bioaccumulative		
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.		
Department issu	Department issuing data specification sheet: KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522		
Contact person	: Dr. Faiza Khan		
Other informatio	: None.		
Full text of H- a	d EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Met. Corr. 1	Corrosive to metals, Category 1		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H290	May be corrosive to metals		
H314	Causes severe skin burns and eye damage		
H319	Causes serious eye irritation		
H335	May cause respiratory irritation		
Classification an	procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Met. Corr. 1	H290 Calculation method		
Eye Irrit. 2	H319 Calculation method		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



1.1. Product identifier Trade name	· PPS Weeking Solution (20x concentrated)
Article number	: PBS-Washing Solution (20x concentrated) : 141201, U141201
Synonyms	: [WASHBUF]
Synonyms	
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	safety data sheet
Supplier	Email competent person
Virotech Diagnostics GmbH	sds@kft.de
Löwenplatz 5 65428 Rüsselsheim - Deutschland	
T +49 6142-69090	
gualitymanagement@virotechdiagnostics	<u>.com</u>
1.4. Emergency telephone number	r
Emergency number	: National Poison Information Service (NPIS)
	24 hour national number professionals only 0844 892 0111
	National Health Service (NHS) 24 hour national number consumer
	England and Scotland: 111
	Wales: 0845 46 47
	Northern Ireland: call your local General Practitioner
	Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identificat	tion
2.1. Classification of the substance	
Classification according to Regulation Sensitisation — Skin, Category 1 H317	(EC) NO. 1272/2008 [CLP]
Full tout of borough alaga an and LL statement	ants : see section 16
Full text of hazard classes and H-stateme	
	Ith and anvironmental offecto
Adverse physicochemical, human heal	Ith and environmental effects
Adverse physicochemical, human heal May cause an allergic skin reaction.	Ith and environmental effects
Adverse physicochemical, human heal	Ith and environmental effects
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
Adverse physicochemical, human healMay cause an allergic skin reaction.2.2.Label elements	
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP)) No. 1272/2008 [CLP] : : GHS07
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Signal word (CLP)) No. 1272/2008 [CLP] : GHS07 : Warning
Adverse physicochemical, human heal May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)) No. 1272/2008 [CLP] : : GHS07

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)	:
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P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	(CAS-No.) 55965-84-9	(C >= 0.0015) Skin Sens. 1, H317
no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no.	(EC Index-No.) 613-167-00-5	(0.06 = <c 0.6)="" 2,="" <="" eye="" h319<="" irrit.="" th=""></c>
220-239-6] (3:1)		(0.06 = <c 0.6)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c>
		(C >= 0.6) Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution.		
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after skin contact	: May cause an allergic skin reaction.		

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Extinguishing media		
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuita	able extinguishing media	: No information available.	
5.2.	Special hazards arising from the su	bstance or mixture	
Hazard fire	lous decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.	
5.3.	Advice for firefighters		
Protect	ion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
Other information		: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 6: Accidental release	e measures	
6.1. Personal precautions, protect	Personal precautions, protective equipment and emergency procedures	
6.1.1. For non-emergency personn	el	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Prevent entry to sewers and public water	s. Avoid sub-soil penetration.	
6.3. Methods and material for cor	ntainment and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.		
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handling	 g	
Precautions for safe handling	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. 	
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage,	including any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
7.3. Specific end use(s)		
In vitro diagnostics.		
SECTION 8: Exposure controls	s/personal protection	
8.1. Control parameters		
No additional information available		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Use protective clothing

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state: LiquidColour: colourless.Odour: odourless.Odour threshold: No data availablepH: 7.2 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: No data availableLog Pow: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableExplosive limits: No data available	9.1. Information on basic physical and	chemical properties
Odour: odourless.Odour threshold: No data availablepH: 7.2 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFraezing point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Physical state	: Liquid
Odour threshold: No data availablepH: 7.2 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Colour	: colourless.
pH: 7.2 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Odour	: odourless.
Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative density: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableCxidising properties: Non oxidizing.	Odour threshold	: No data available
Melting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	рН	: 7.2 (20 °C)
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Boiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Melting point	: No data available
Flash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No tapplicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Freezing point	: No data available
Auto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Boiling point	: No data available
Decomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Flash point	: No data available
Flammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Auto-ignition temperature	: No data available
Vapour pressure:No data availableRelative vapour density at 20 °C:No data availableRelative density:No data availableSolubility:Water: SolubleLog Pow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data availableOxidising properties:Non oxidizing.	Decomposition temperature	: No data available
Relative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Flammability (solid, gas)	: Not applicable
Relative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Vapour pressure	: No data available
Solubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Relative vapour density at 20 °C	: No data available
Log Pow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data available.Oxidising properties:Non oxidizing.	Relative density	: No data available
Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Solubility	: Water: Soluble
Viscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Log Pow	: No data available
Explosive properties: No data available.Oxidising properties: Non oxidizing.	Viscosity, kinematic	: No data available
Oxidising properties : Non oxidizing.	Viscosity, dynamic	: No data available
	Explosive properties	: No data available.
Explosive limits : No data available	Oxidising properties	: Non oxidizing.
	Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		
No additional information available.			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7.2 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.2 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degradab	ity	
PBS-Washing Solution (20x concent	ated)	
Persistence and degradability	No additional information available.	
12.3. Bioaccumulative potential		
PBS-Washing Solution (20x concent	ated)	
Bioaccumulative potential	No additional information available.	
12.4. Mobility in soil		
PBS-Washing Solution (20x concent	ated)	
Ecology - soil	No additional information available.	
12.5. Results of PBT and vPvB assessment		
PBS-Washing Solution (20x concent	ated)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Other adverse effects	: No additional information available.	

SECTION 13: Disposal	considerations
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13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance wit		RID /		ΔΤΔΙ	
III accordance wit	$\Pi ADH /$	$\Pi U /$	IIVIDG /		

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN numbe	er			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			÷
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport	hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	· ·

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	PBS-Washing Solution (20x concentrated) - reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
vPvB	Very Persistent and	d Very Bioaccumulative
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department issu	ing data specificatior	n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person		: Dr. Faiza Khan
Other information	n	: None.
Full toxt of L or	nd EUH-statements:	
Acute Tox. 3 (De		Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inf	/	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Or		Acute toxicity (oral), Category 3
Aquatic Acute 1	,	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic	1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B		Skin corrosion/irritation, Category 1B
Skin Sens. 1		Sensitisation — Skin, Category 1
H301		Toxic if swallowed
H311		Toxic in contact with skin
H314		Causes severe skin burns and eye damage
H317		May cause an allergic skin reaction
H331		Toxic if inhaled
H400		Very toxic to aquatic life
H410		Very toxic to aquatic life with long lasting effects
Classification an	d procedure used to	derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Skin Sens. 1		H317 Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



· · · · · · ·	
1.1. Product identifier	
Trade name	: PBS-Dilution Buffer (blue, ready to use)
Article number	: 141301, U141301
Synonyms	: [DILBUF]
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	safety data sheet
Supplier Virotech Diagnostics GmbH Löwenplatz 5	Email competent person sds@kft.de
65428 Rüsselsheim - Deutschland T +49 6142-69090	
qualitymanagement@virotechdiagnostics.	<u>com</u>
1.4. Emergency telephone number	r
Emergency number	: National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111
	National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner
	Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identificat	ion
2.1. Classification of the substanc	e or mixture
Classification according to Regulation Sensitisation — Skin, Category 1 H317	(EC) No. 1272/2008 [CLP]
Full text of hazard classes and H-statemer	nts : see section 16
	th and environmental effects
Adverse physicochemical, human healt	
May cause an allergic skin reaction.	
Adverse physicochemical, human healt May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC)	
May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP)	No. 1272/2008 [CLP] : GHS07
May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC) Hazard pictograms (CLP) Signal word (CLP)	No. 1272/2008 [CLP] : GHS07 : Warning
May cause an allergic skin reaction. 2.2. Label elements	No. 1272/2008 [CLP] : GHS07

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements ((CLP)	
· · · · · · · · · · · · · · · · · · ·	· · · · /	

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: P280 - Wear protective gloves
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P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1.	.1. Extinguishing media				
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.			
Unsuita	Unsuitable extinguishing media : No information available.				
5.2.	5.2. Special hazards arising from the substance or mixture				
Hazardous decomposition products in case of : release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (fire oxides. Sulphur oxides.		: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.			
5.3.	Advice for firefighters				
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathin apparatus. Complete protective clothing.					
		Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fightin enter drains or water courses.			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REA	ACM)
SECTION 6: Accidental release	measures
6.1. Personal precautions, protect	ive equipment and emergency procedures
6.1.1. For non-emergency personne Emergency procedures	I : Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters	. Avoid sub-soil penetration.
6.3. Methods and material for cont	ainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
Information for safe handling. See section section 13.	7. Concerning personal protective equipment to use, see section 8. For further information refer to
SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
In vitro diagnostics.	
SECTION 8: Exposure controls	personal protection
8.1. Control parameters	
No additional information available	

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Use protective clothing

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Colour	: Blue.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7.2 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	duct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dang	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	.5. Incompatible materials		
No addi	No additional information available.		
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECT	SECTION 11: Toxicological information		
11.1.	Information on toxicological effects		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7.2 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.2 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degrada	bility		
PBS-Dilution Buffer (blue, ready to	use)		
Persistence and degradability	No additional information available.		
12.3. Bioaccumulative potentia	1		
PBS-Dilution Buffer (blue, ready to	use)		
Bioaccumulative potential	No additional information available.		
12.4. Mobility in soil			
PBS-Dilution Buffer (blue, ready to	use)		
Ecology - soil	No additional information available.		
12.5. Results of PBT and vPvE	assessment		
PBS-Dilution Buffer (blue, ready to	use)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This substance/mixture does not me	t the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects			
Other adverse effects	: No additional information available.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

endations : Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with		RID	ΙΔΤΔ	
In accordance with	ADn/	עוח י		

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	on available	•

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	PBS-Dilution Buffer (blue, ready to use) - reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IATA	International Air Transport Association		
IMDG	International Maritime Code for Dangerous Goods		
LC50	Median lethal concentration		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PNEC	Predicted No-Effect Concentration			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
STP	Sewage treatment plant			
vPvB	Very Persistent and Very Bioaccumulative			
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.		
Department issuing data specification sheet:		n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522		
Contact person		: Dr. Faiza Khan		
Other information	n	: None.		
Acute Tox. 3 (De	nd EUH-statements:	Acute toxicity (dermal), Category 3		
		Acute toxicity (inhal.), Category 3		
		Acute toxicity (oral), Category 3		
		Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic	1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
		Skin corrosion/irritation, Category 1B		
Skin Sens. 1		Sensitisation — Skin, Category 1		
		Toxic if swallowed		
H311 Toxic in c		oxic in contact with skin		
H314 Causes se		Causes severe skin burns and eye damage		
H317 May cause		Aay cause an allergic skin reaction		
H331 Toxic if inha		ic if inhaled		
		Very toxic to aquatic life		
H410 Very toxic to		Very toxic to aquatic life with long lasting effects		
Classification an	nd procedure used to	derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1 H317 Calculation method				

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

VZV-IgM-Dilution Buffer (green, ready to use) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00

SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1. Product identification of tr	ne substance/mixture and of the company/undertaking
Trade name	: VZV-IgM-Dilution Buffer (green, ready to use)
Article number	: 141401
Synonyms	: [VZVDILBUF]
1.2. Relevant identified uses of the	he substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	safety data sheet
Supplier	Email competent person
Virotech Diagnostics GmbH Löwenplatz 5	sds@kft.de
65428 Rüsselsheim - Deutschland	
T +49 6142-69090 gualitymanagement@virotechdiagnostics	s com
1.4. Emergency telephone numb Emergency number	: National Poison Information Service (NPIS)
Emergency number	24 hour national number professionals only
	0844 892 0111
	National Health Service (NHS)
	24 hour national number consumer
	England and Scotland: 111 Wales: 0845 46 47
	England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner
	Wales: 0845 46 47
	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identifica	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident.
	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identifica 2.1. Classification of the substan Classification according to Regulation	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident.
2.1. Classification of the substan	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident.
2.1. Classification of the substan Classification according to Regulation	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. ation ace or mixture n (EC) No. 1272/2008 [CLP]
2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. ation ace or mixture n (EC) No. 1272/2008 [CLP]
2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16
2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16
2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human heat May cause an allergic skin reaction. 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC Hazard pictograms (CLP) 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Ation Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC Hazard pictograms (CLP) Signal word (CLP) 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Attion At
 2.1. Classification of the substan Classification according to Regulation Sensitisation — Skin, Category 1 H317 Full text of hazard classes and H-statem Adverse physicochemical, human hea May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (EC 	Wales: 0845 46 47 Northern Ireland: call your local General Practitioner Call 999 if there is a life-threatening incident. Attion Ince or mixture In (EC) No. 1272/2008 [CLP] ents : see section 16 alth and environmental effects C) No. 1272/2008 [CLP] : : : : : : : : : : : : :



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary	v statements	(CLP)
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: P280 - Wear protective gloves
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P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	(CAS-No.) 55965-84-9	(C >= 0.0015) Skin Sens. 1, H317
no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no.	(EC Index-No.) 613-167-00-5	(0.06 = <c 0.6)="" 2,="" <="" eye="" h319<="" irrit.="" th=""></c>
220-239-6] (3:1)		(0.06 = <c 0.6)="" 2,="" <="" h315<="" irrit.="" skin="" th=""></c>
		(C >= 0.6) Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	SECTION 5: Fire-fighting measures		
5.1.	Extinguishing media		
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuita	able extinguishing media	: No information available.	
5.2.	5.2. Special hazards arising from the substance or mixture		
Hazaro fire	lous decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.	
5.3.	Advice for firefighters		
Protect	ion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
Other i	nformation	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting t enter drains or water courses.	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACH)		
SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Av	oid sub-soil penetration.	
6.3. Methods and material for contain	ment and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.	
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, inclu	iding any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep cool.	
7.3. Specific end use(s)		
In vitro diagnostics.		
SECTION 8: Exposure controls/pe	rsonal protection	
8.1. Control parameters		
No additional information available		

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Colour	: Green.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7 - 7.4 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	oduct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	No dangerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No add	No additional information available.		
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECT	SECTION 11: Toxicological information		
11.1.	11.1. Information on toxicological effects		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7 - 7.4 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7 - 7.4 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degradability		
VZV-IgM-Dilution Buffer (green, ready to use)		
Persistence and degradability	No additional information available.	
12.3. Bioaccumulative potential		
VZV-IgM-Dilution Buffer (green, ready to use)		
Bioaccumulative potential	No additional information available.	
12.4. Mobility in soil		
VZV-IgM-Dilution Buffer (green, ready to use)		
Ecology - soil	No additional information available.	
12.5. Results of PBT and vPvB assessment		
VZV-IgM-Dilution Buffer (green, ready to use)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Other adverse effects	: No additional information available.	

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			· · · · · · · · · · · · · · · · · · ·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmer	ntal hazards			•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	on available	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user - Overland transport Not applicable - Transport by sea Not applicable - Air transport Not applicable - Inland waterway transport Not applicable - Rail transport Not applicable Transport in bulk according to Annex II of Marpol and the IBC Code 14.7. Not applicable **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	VZV-IgM-Dilution Buffer (green, ready to use) - reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agréement concerning the International Carriage of Dangerous Goods by Road)		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IATA	International Air Transport Association		
IMDG	International Maritime Code for Dangerous Goods		
LC50	Median lethal concentration		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		

VZV-IgM-Dilution Buffer (green, ready to use) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP	Sewage treatment plant		
vPvB	Very Persistent and Very Bioaccumulative		
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.	
Department issuing data specification sheet:		n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany	
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522	
Contact person		: Dr. Faiza Khan	
Other information	n	: None.	
	nd EUH-statements:		
Acute Tox. 3 (De		Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inf	/	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Or	/	Acute toxicity (oral), Category 3	
Aquatic Acute 1	u.)	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic	1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Skin Corr. 1B		Skin corrosion/irritation, Category 1B	
Skin Sens. 1		Sensitisation — Skin, Category 1	
H301		Toxic if swallowed	
H311		Toxic in contact with skin	
H314		Causes severe skin burns and eye damage	
H317		May cause an allergic skin reaction	
H331		Toxic if inhaled	
H400		Very toxic to aquatic life	
H410		Very toxic to aquatic life with long lasting effects	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Skin Sens. 1		H317 Calculation method	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1.	Product identifier			
Trade na	ame	: IgM-Conjugate (anti-human)		
Article number		: 131201, U131201		
Synonyms		: [IgM CONJ GOAT]		
1.2.	1.2. Relevant identified uses of the substance or mixture and uses advised against			
1.2.1.	Relevant identified uses			
Use of th	ne substance/mixture	: In vitro diagnostics		
1.2.2.	Uses advised against			
No additi	ional information available			
1.3.	Details of the supplier of the sa	fety data sheet		
Löwenpla 65428 R T +49 61	Diagnostics GmbH	Email competent person sds@kft.de		
1.4.	Emergency telephone number			
Emerger	ncy number	: National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111		
		National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner		
		Call 999 if there is a life-threatening incident.		
SECTI	ON 2: Hazards identification	n j		
2.1.	Classification of the substance	or mixture		
	cation according to Regulation (E ation — Skin, Category 1 H317	C) No. 1272/2008 [CLP]		
Full text	of hazard classes and H-statement	s : see section 16		
	e physicochemical, human health se an allergic skin reaction.	and environmental effects		
2.2.	Label elements			
	g according to Regulation (EC) N pictograms (CLP)	o. 1272/2008 [CLP]		
nazaru p		GHS07		
	ord (CLP)	GHS07 : Warning		
Signal w	ord (CLP) us ingredients	GHS07 : Warning : reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)

: P280 - Wear protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/effects after skin contact	: May cause an allergic skin reaction.			

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1.	Extinguishing media				
Suitable	e extinguishing media	:	: Water spray. Dry powder. Foam. Carbon dioxide.		
Unsuitable extinguishing media		:	: No information available.		
5.2.	5.2. Special hazards arising from the substance or mixture				
Hazard fire	ous decomposition products in case of	:	release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.		
5.3.	Advice for firefighters				
Protection during firefighting		:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
Other information		:	Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACH)				
SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures			
	For non-emergency personnel cy procedures	: Ventilate spillage area. Avoid contact with skin and eyes.		
6.1.2.	For emergency responders			
Protective	e equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2.	Environmental precautions			
Prevent e	entry to sewers and public waters. Avo	oid sub-soil penetration.		
6.3.	Methods and material for containing	nent and cleaning up		
Methods	for cleaning up	: Take up liquid spill into absorbent material.		
Other info	ormation	: Dispose of materials or solid residues at an authorized site.		
6.4.	Reference to other sections			
	Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.			
SECTIO	ON 7: Handling and storage			
7.1.	Precautions for safe handling			
Precautio	ons for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.		
Hygiene r	measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2.	Conditions for safe storage, including any incompatibilities			
Storage c	conditions	: Store in a well-ventilated place. Keep cool.		
7.3.	Specific end use(s)			
In vitro di	agnostics.			
SECTIO	ON 8: Exposure controls/per	sonal protection		
8.1.	Control parameters			

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Colour	: red.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7.5 - 7.7 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1.	Reactivity	
The pro	oduct is non-reactive under normal conditions of use, storage and transport.	
10.2.	Chemical stability	
Stable	under normal conditions.	
10.3.	Possibility of hazardous reactions	
No dan	gerous reactions known under normal conditions of use.	
10.4.	Conditions to avoid	
None u	nder recommended storage and handling conditions (see section 7).	
10.5.	Incompatible materials	
No add	itional information available.	
10.6.	Hazardous decomposition products	
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.	
SECT	ION 11: Toxicological information	
11.1.	Information on toxicological effects	

11.1. Information on toxicological effects		
Acute toxicity	: Not classified (No data available)	
Skin corrosion/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degrada	bility	
IgM-Conjugate (anti-human)		
Persistence and degradability	No additional information available.	
12.3. Bioaccumulative potenti	l	
IgM-Conjugate (anti-human)		
Bioaccumulative potential	No additional information available.	
12.4. Mobility in soil		
IgM-Conjugate (anti-human)		
Ecology - soil	No additional information available.	
12.5. Results of PBT and vPvI	assessment	
IgM-Conjugate (anti-human)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not me	et the vPvB criteria of REACH regulation, annex XIII	
12.6. Other adverse effects		
Other adverse effects	: No additional information available.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with	BID /	IMDG	ΙΔΤΔ	
In accordance with	1110/	INDU.		

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	•			÷
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	hipping name			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport ha	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	No supplementary information available			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	IgM-Conjugate (anti-human) - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration

IgM-Conjugate (anti-human) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RID Regulations conc	erning the International Carriage of Dangerous Goods by Rail
STP Sewage treatmen	t plant
vPvB Very Persistent a	nd Very Bioaccumulative
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department issuing data specification	on sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person	: Dr. Faiza Khan
Other information	: None.
Full text of H- and EUH-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Classification and procedure used to	o derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Skin Sens. 1	H317 Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00

SECT	ION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1.	Product identifier	
Trade r	name	: IgA-Conjugate (anti-human), IgA 2-Conjugate (anti-human)
Article	number	: 131301, 131601, U131601
Synony	ıms	: [IgA CONJ GOAT]
1.2.	Relevant identified uses of the s	ubstance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of	the substance/mixture	: In vitro diagnostics
1.2.2.	Uses advised against	
No add	litional information available	
1.3.	Details of the supplier of the safe	ety data sheet
Löwen 65428	h Diagnostics GmbH	Email competent person sds@kft.de
	nanagement@virotechdiagnostics.com	<u>m</u>
1.4.	Emergency telephone number	
Emerge	ency number	: National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111
		National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner
		Call 999 if there is a life-threatening incident.
SECT	ION 2: Hazards identificatio	n
2.1.	Classification of the substance of	or mixture
	fication according to Regulation (Ed sation — Skin, Category 1 H317	C) No. 1272/2008 [CLP]
Full tex	t of hazard classes and H-statements	: see section 16
	se physicochemical, human health a use an allergic skin reaction.	and environmental effects
2.2.	Label elements	
	ng according to Regulation (EC) No pictograms (CLP)	D. 1272/2008 [CLP]
Signal	word (CLP)	GHS07
-	word (CLP) lous ingredients	 Warning reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)
3/15/20	17	GB - en 1/7

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Hazard statements (CLP)	: H317 - May cause an allergic skin reaction
Precautionary statements (CLP)	 P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Specific concentration limits:			
Name	Product identifier	Specific	concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>	

Full text of H-statements: see section 16

SECT	ΓΙΟΝ 4: First aid measures	
4.1.	Description of first aid measures	
First-ai	id measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-ai	id measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-ai	id measures after eye contact	: Rinse eyes with water as a precaution.
First-ai	id measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effe	cts, both acute and delayed
Sympto	oms/effects after skin contact	: May cause an allergic skin reaction.
4.3.	Indication of any immediate medica	al attention and special treatment needed
Treat s	symptomatically.	
SECT	ΓΙΟΝ 5: Fire-fighting measures	
5.1.	Extinguishing media	
Suitabl	le extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuita	able extinguishing media	: No information available.
5.2.	Special hazards arising from the su	ibstance or mixture
Hazaro fire	dous decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3.	Advice for firefighters	
Protect	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other i	nformation	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting the enter drains or water courses.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACH)		
SECTION 6: Accidental release me	easures		
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Av	oid sub-soil penetration.		
6.3. Methods and material for contain	ment and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
Information for safe handling. See section 7. C section 13.	Concerning personal protective equipment to use, see section 8. For further information refer to		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.		
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
7.3. Specific end use(s)			
In vitro diagnostics.			
SECTION 8: Exposure controls/pe	rsonal protection		
8.1. Control parameters			
No additional information available			

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Colour	: red.		
Odour	: odourless.		
Odour threshold	: No data available		
рН	: 7.5 - 7.7 (20 °C)		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Water: Soluble		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available.		
Oxidising properties	: Non oxidizing.		
Explosive limits	: No data available		

9.2. Other information

No additional information available

10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable ι	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		
No additional information available.			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicological information			

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degradab	ility	
IgA-Conjugate (anti-human), IgA 2-0	Conjugate (anti-human)	
Persistence and degradability	No additional information available.	
12.3. Bioaccumulative potential		
IgA-Conjugate (anti-human), IgA 2-0	Conjugate (anti-human)	
Bioaccumulative potential	No additional information available.	
12.4. Mobility in soil		
IgA-Conjugate (anti-human), IgA 2-0	Conjugate (anti-human)	
Ecology - soil	No additional information available.	
12.5. Results of PBT and vPvB assessment		
IgA-Conjugate (anti-human), IgA 2-Conjugate (anti-human)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Other adverse effects	: No additional information available.	

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with		RID	ΙΔΤΔ	
III accordance with	ADn/	עוח י		

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	r			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			÷
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport I	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	on available	•

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user - Overland transport Not applicable - Transport by sea Not applicable - Air transport Not applicable - Inland waterway transport Not applicable - Inland waterway transport Not applicable - Inland waterway transport Not applicable - Rail transport Not applicable 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	IgA-Conjugate (anti-human), IgA 2-Conjugate (anti-human) - reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220- 239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the
	International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic

IgA-Conjugate (anti-human), IgA 2-Conjugate (anti-human) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PNEC	Predicted No-Effe	ct Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
vPvB	Very Persistent ar	nd Very Bioaccumulative
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department issuing data specification sheet:		n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person		: Dr. Faiza Khan
Other informatio	on	: None.
Full toxt of LL	and EUH-statements	
Acute Tox. 3 (D		Acute toxicity (dermal), Category 3
Acute Tox. 3 (In	/	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (O	/	Acute toxicity (mind.), Category 3
Aquatic Acute 1	/	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic		Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B		Skin corrosion/irritation, Category 1B
Skin Sens. 1		Sensitisation — Skin, Category 1
H301		Toxic if swallowed
H311		Toxic in contact with skin
H314		Causes severe skin burns and eye damage
H317		May cause an allergic skin reaction
H331		Toxic if inhaled
H400		Very toxic to aquatic life
H410		Very toxic to aquatic life with long lasting effects
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1		H317 Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

lgG-Con	jugate	(anti-human)
	• • •	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/16/2017 Revision date: 3/16/2017 Version: 1.00



SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Trade name	: IgG-Conjugate (anti-human)	
Article number	: 131101, U131101	
Synonyms	: [IgG CONJ GOAT]	
1.2. Relevant identified uses of	the substance or mixture and uses advised against	
1.2.1. Relevant identified uses		
Use of the substance/mixture	: In vitro diagnostics	
1.2.2. Uses advised against		
No additional information available		
1.3. Details of the supplier of the	e safety data sheet	
Supplier	Email competent person	
Virotech Diagnostics GmbH	sds@kft.de	
Löwenplatz 5 65428 Rüsselsheim - Deutschland		
T +49 6142-69090		
qualitymanagement@virotechdiagnosti	<u>cs.com</u>	
1.4. Emergency telephone num		
Emergency number	National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111	
	National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner	
	Call 999 if there is a life-threatening incident.	
SECTION 2: Hazards identific	-	
SECTION 2: Hazards identific 2.1. Classification of the substa	cation	
2.1. Classification of the substa	ance or mixture	
2.1. Classification of the substa Classification according to Regulation	eation ance or mixture on (EC) No. 1272/2008 [CLP]	
	cation ance or mixture on (EC) No. 1272/2008 [CLP] 7	
2.1. Classification of the substa Classification according to Regulation Sensitisation — Skin, Category 1 H31	cation ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16	
2.1. Classification of the substation Classification according to Regulation Sensitisation — Skin, Category 1 H31 Full text of hazard classes and H-state Adverse physicochemical, human hat May cause an allergic skin reaction.	cation ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16	
 2.1. Classification of the substation according to Regulation Sensitisation — Skin, Category 1 H31 Full text of hazard classes and H-state Adverse physicochemical, human he May cause an allergic skin reaction. 2.2. Label elements 	eation ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16 ealth and environmental effects	
 2.1. Classification of the substation according to Regulation Sensitisation — Skin, Category 1 H31 Full text of hazard classes and H-state Adverse physicochemical, human had May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (Education of the substate) 	eation ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16 ealth and environmental effects	
 2.1. Classification of the substation Classification according to Regulation Sensitisation — Skin, Category 1 H31 Full text of hazard classes and H-state Adverse physicochemical, human hat May cause an allergic skin reaction. 2.2. Label elements Labelling according to Regulation (E Hazard pictograms (CLP) 	ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16 ealth and environmental effects GC) No. 1272/2008 [CLP] CGHS07	
 2.1. Classification of the substance of the subs	ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16 ealth and environmental effects EC) No. 1272/2008 [CLP] GHS07 : Warning	
2.1. Classification of the substation Classification according to Regulation Sensitisation — Skin, Category 1 H31 Full text of hazard classes and H-state Adverse physicochemical, human hat May cause an allergic skin reaction.	ance or mixture on (EC) No. 1272/2008 [CLP] 7 ments : see section 16 ealth and environmental effects GC) No. 1272/2008 [CLP] CGHS07	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)

P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/effects after skin contact	: May cause an allergic skin reaction.			

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECT	SECTION 5: Fire-fighting measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuita	able extinguishing media	: No information available.	
5.2.	Special hazards arising from the su	bstance or mixture	
Hazardous decomposition products in case of fire		: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.	
5.3.	Advice for firefighters		
Protect	ion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
Other information		: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.	

[:] P280 - Wear protective gloves

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Emerge	ency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.	
6.1.2.	For emergency responders		
Protecti	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2.	Environmental precautions		
Prevent	t entry to sewers and public waters. A	void sub-soil penetration.	
6.3.	Methods and material for contain	nment and cleaning up	
Method	s for cleaning up	: Take up liquid spill into absorbent material.	
Other in	formation	: Dispose of materials or solid residues at an authorized site.	
6.4.	I. Reference to other sections		
	Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.		
SECT	ION 7: Handling and storage)	
7.1.	Precautions for safe handling		
Precaut	tions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.	
Hygiene	e measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2.	Conditions for safe storage, including any incompatibilities		
Storage	conditions	: Store in a well-ventilated place. Keep cool.	
7.3.	.3. Specific end use(s)		
In vitro	diagnostics.		
SECT	ION 8: Exposure controls/pe	ersonal protection	
8.1.	8.1. Control parameters		
	itianal information quailable		

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

IgG-Conjugate (anti-human) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Colour	: Green.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7 - 7.2 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No add	No additional information available.		
10.6.	Hazardous decomposition products		
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7 - 7.2 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7 - 7.2 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degra	Jability			
IgG-Conjugate (anti-human)				
Persistence and degradability	No additional information available.			
12.3. Bioaccumulative poten	tial			
IgG-Conjugate (anti-human)				
Bioaccumulative potential	No additional information available.			
12.4. Mobility in soil				
IgG-Conjugate (anti-human)				
Ecology - soil	No additional information available.			
12.5. Results of PBT and vPvB assessment				
lgG-Conjugate (anti-human)				
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII				
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
12.6. Other adverse effects				
Other adverse effects	: No additional information available.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance	with ADR	/ RID / IMDG	/ IATA	/ ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	•			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper sh	nipping name			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport ha	zard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environment	al hazards	•		•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	IgG-Conjugate (anti-human) - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European		
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IATA	International Air Transport Association		
IMDG	International Maritime Code for Dangerous Goods		
LC50	Median lethal concentration		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		

IgG-Conjugate (anti-human) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RID Regulations conc	Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP Sewage treatmen	Sewage treatment plant		
vPvB Very Persistent a	nd Very Bioaccumulative		
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.		
Department issuing data specification	on sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522		
Contact person	: Dr. Faiza Khan		
Other information	: None.		
Full text of H- and EUH-statements			
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
Skin Sens. 1	Sensitisation — Skin, Category 1		
H301	Toxic if swallowed		
H311 Toxic in contact with skin			
H314 Causes severe skin burns and eye damage			
H317 May cause an allergic skin reaction			
H331 Toxic if inhaled			
H400	H400 Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
Classification and procedure used to	o derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317 Calculation method		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

IgA+M conjugate (anti-human IgA+IgM mixture) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



		e substance/mixture and of the company/undertaking		
1.1.	Product identifier			
Trade		: IgA+M conjugate (anti-human IgA+IgM mixture)		
	number			
Synonyms : [IgA+M CONJ GOAT]				
1.2.	Relevant identified uses of the	e substance or mixture and uses advised against		
1.2.1.	Relevant identified uses			
Use of	the substance/mixture	: In vitro diagnostics		
1.2.2.	Uses advised against			
No add	ditional information available			
1.3.	Details of the supplier of the s	safety data sheet		
Suppli	ier	Email competent person		
Viroteo Löwen	ch Diagnostics GmbH	sds@kft.de		
	Rüsselsheim - Deutschland			
	6142-69090 management@virotechdiagnostics.			
1.4.	Emergency telephone number ency number	r : National Poison Information Service (NPIS)		
Linerg		24 hour national number professionals only		
		0844 892 0111		
		National Health Service (NHS)		
		24 hour national number consumer England and Scotland: 111		
		Wales: 0845 46 47		
		Northern Ireland: call your local General Practitioner		
		Call 999 if there is a life-threatening incident.		
SECT	ΓΙΟΝ 2: Hazards identificat	ion		
2.1.	Classification of the substance	e or mixture		
Classi	fication according to Regulation	(EC) No. 1272/2008 [CLP]		
Sensiti	sation — Skin, Category 1 H317			
Full tex	xt of hazard classes and H-stateme	nts : see section 16		
Adver	se physicochemical, human heal	th and environmental effects		
May ca	ause an allergic skin reaction.			
2.2.	Label elements			
Labell	ing according to Regulation (EC)	No. 1272/2008 [CLP]		
	d pictograms (CLP)			
		GHS07		
-	word (CLP)	: Warning		
-	word (CLP) dous ingredients			

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)	: P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

(0.06 =<C < 0.6) Eye Irrit. 2, H319 (0.06 =<C < 0.6) Skin Irrit. 2, H315 (C >= 0.6) Skin Corr. 1B, H314

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Methyl-2H-isothiazol-3-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Specific concentration limits:			
Name	Product identifier	Specific of	concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	(CAS-No.) 55965-84-9	·	5) Skin Sens. 1, H317

(EC Index-No.) 613-167-00-5

Full text of H-statements: see section 16

no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

SECTION 4: First aid measures			
4.1. Description of first aid measur	es		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution.		
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects after skin contact	: May cause an allergic skin reaction.		
4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Fire-fighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		

Unsuitable extinguishing media		:	No information available.
5.2. Special hazards arising from the su		ıbs	tance or mixture
Hazaro fire	lous decomposition products in case of	:	release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3.	Advice for firefighters		
Protect	Protection during firefighting		Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Other information : Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. 6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 6.2. **Environmental precautions** Prevent entry to sewers and public waters. Avoid sub-soil penetration. Methods and material for containment and cleaning up 6.3 Methods for cleaning up : Take up liquid spill into absorbent material. Other information : Dispose of materials or solid residues at an authorized site. 6.4. Reference to other sections Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing Precautions for safe handling dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Hygiene measures Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions : Store in a well-ventilated place. Keep cool. 7.3. Specific end use(s) In vitro diagnostics. SECTION 8: Exposure controls/personal protection **Control parameters** 8.1. No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: Green.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7 - 7.2 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable u	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials		
No addi	itional information available.		
10.6.	Hazardous decomposition products		
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

	11.1. Information on toxicological effects	
Acute toxicity		: Not classified (No data available)
Skin corrosion/irritation		: Not classified (No data available) pH: 7 - 7.2 (20 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7 - 7.2 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degradabi	ity
IgA+M conjugate (anti-human IgA+lg	M mixture)
Persistence and degradability	No additional information available.
12.3. Bioaccumulative potential	
IgA+M conjugate (anti-human IgA+lg	M mixture)
Bioaccumulative potential	No additional information available.
12.4. Mobility in soil	
IgA+M conjugate (anti-human IgA+Ig	M mixture)
Ecology - soil	No additional information available.
12.5. Results of PBT and vPvB a	ssessment
IgA+M conjugate (anti-human IgA+lo	M mixture)
This substance/mixture does not meet	the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet	the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects	: No additional information available.

SECTION 13: Disposal co	onsiderations
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13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with ADR	
III accordance with ADT	

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper s	hipping name			·	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport ha	azard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing gro	14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
	No supplementary information available				

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	IgA+M conjugate (anti-human IgA+IgM mixture) - 2-Methyl-2H-isothiazol-3-one - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	2-Methyl-2H-isothiazol-3-one - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic

IgA+M conjugate (anti-human IgA+IgM mixture) Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP	Sewage treatment plant		
vPvB	Very Persistent an	d Very Bioaccumulative	
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.	
Department issu	uing data specificatio	n sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany	
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522	
Contact person		: Dr. Faiza Khan	
Other informatio	n	: None.	
Full text of H- a	nd EUH-statements:		
Acute Tox. 3 (De	ermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (In	halation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Or		Acute toxicity (oral), Category 3	
Acute Tox. 4 (Or	ral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1		Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic	1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Skin Corr. 1		Skin corrosion/irritation, Category 1	
Skin Corr. 1B		Skin corrosion/irritation, Category 1B	
Skin Sens. 1		Sensitisation — Skin, Category 1	
STOT SE 3		Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H301		Toxic if swallowed	
H302		Harmful if swallowed	
H311		Toxic in contact with skin	
H314		Causes severe skin burns and eye damage	
H317		May cause an allergic skin reaction	
H331		Toxic if inhaled	
H335		May cause respiratory irritation	
H400		Very toxic to aquatic life	
H410		Very toxic to aquatic life with long lasting effects	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Skin Sens. 1		H317 Calculation method	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 3/16/2017 Revision date: 3/16/2017 Version: 1.00

SECTION 1: Identification of the	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name	: IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3
Article number	: 102201, 102202, 102203, 102204, 102205, 102206, 102230, 102231, 102232, 102233, 102234, 102235, 102237, 102242, 102243, 102244, 102245, 102301, 102302, 102303, 102401, 102402, 102403, 110104, 110105, 110106, 110107, 110108, 110109, 110202, 110202, 110203, 110204, 110205, 110206, 110230, 110231, 110232, 110233, 110242, 110243, 110244, 110245, 110501, 110502, 110503, 110534, 110555, 110556, 110530, 110551, 110532, 110533, 110534, 110535, 110536, 110537, 110542, 110543, 110644, 110645, 110605, 110603, 110631, 110632, 110633, 110701, 110702, 110703, 110704, 110705, 110706, 110707, 110708, 110709, 110830, 110831, 110832, 110833, 110842, 110843, 110844, 110845, 110930, 110931, 110932, 110933, 110942, 110943, 110944, 110943, 111004, 111005, 111006, 111007, 111008, 111009, 111030, 111033, 111044, 11105, 111106, 11107, 111108, 111009, 111030, 111031, 111332, 111333, 111044, 111045, 111101, 11102, 111103, 111104, 111105, 111106, 111107, 111108, 111109, 111301, 111332, 111333, 111304, 111304, 111305, 111306, 111330, 111331, 111332, 111333, 111604, 111605, 111606, 111607, 111608, 111609, 111701, 111703, 111704, 111705, 111706, 111707, 111704, 111705, 111706, 111730, 111731, 111732, 111733, 111734, 111735, 111736, 111737, 111742, 111743, 111744, 111745, 111801, 111802, 111803, 111807, 111808, 111809, 111901, 111902, 111903, 111904, 111905, 111906, 111907, 111908, 111909, 11201, 11202, 11203, 11204, 11205, 112206, 112231, 112231, 112233, 112233, 112242, 112202, 112203, 112204, 112205, 112204, 112203, 112204, 112205, 112204, 112203, 112204, 112205, 112204, 112203, 11333, 114201, 114202, 114203, 114207, 114208, 114809, 114301, 114302, 114303, 114307, 114308, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114806, 114807, 114308, 114309, 144309, 144303, 114304, 114305, 114306, 114305, 114306, 114305, 114306, 114307, 114308, 114309, 114301, 114302, 114303, 114304, 114305, 114306, 114407, 114305, 114306, 11
Synonyms	: [CONTRL NEG, POS, CO, STD, LOWPOS, HIGHPOS, CSF STD, CSF AI, VAL, PIP IgM IgG IgA]
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available 1.3. Details of the supplier of the s	safatu data shaat
· ·	•
Supplier Virotech Diagnostics GmbH Löwenplatz 5 65428 Rüsselsheim - Deutschland T +49 6142-69090 gualitymanagement@virotechdiagnostics.	Email competent person sds@kft.de
1.4. Emergency telephone numbe	r
Emergency number	National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111
3/16/2017	GB - en 1/7

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures			
4.1.	Description of first aid measures		
First-aid measures after inhalation		:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact		:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact		:	Rinse eyes with water as a precaution.
First-aid measures after ingestion		:	Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effects, both acute and delayed		
No additional information available			
4.3.	Indication of any immediate medical attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Fire-fighting measures			
5.1.	Extinguishing media		
Suitable extinguishing media		:	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media :		:	No information available.
5.2.	Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire		:	release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

5.3. Advice for firefi	ghters
Protection during firefightin	g : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
SECTION 6: Accider	ntal release measures
6.1. Personal preca	utions, protective equipment and emergency procedures
6.1.1. For non-emerge	ency personnel
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency	responders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental	precautions
Prevent entry to sewers an	d public waters. Avoid sub-soil penetration.
6.3. Methods and m	aterial for containment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to ot	her sections
Information for safe handlin section 13.	ng. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to
SECTION 7: Handlin	g and storage
7.1. Precautions for	safe handling
Precautions for safe handli	ng : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for s	safe storage, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
	e(s)
7.3. Specific end us	
7.3. Specific end us In vitro diagnostics.	
In vitro diagnostics.	re controls/personal protection
In vitro diagnostics.	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties	
Physical state	: Liquid
Colour	: colourless.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7 - 7.4 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7 - 7.4 (20 °C)
Serious eye damage/irritation	: Not classified (No data available) pH: 7 - 7.4 (20 °C)
Respiratory or skin sensitisation	: Not classified (No data available)
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degradability IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Persistence and degradability No additional information available.

12.3. Bioaccumulative potential

 IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

 Bioaccumulative potential
 No additional information available.

12.4. Mobility in soil

 IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

 Ecology - soil
 No additional information available.

12.5. Results of PBT and vPvB assessment

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, AI-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects

: No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations

Disposal must be done according to official regulations. European waste catalogue.
Comply with local regulations for disposal.

- . . .
- ., .

SECTION 14: Transport information

ADR IMDG IATA ADN 14.1. UN number	Ν	RID
14.1. UN number		
Not applicable Not applicable Not applicable	applicable	Not applicable

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, Al-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.2. UN proper s	hipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmen	ital hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	n available	ł

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.

15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

: A safety data sheet is not required for this product under Article 31 of REACH. This Product Other information, restriction and prohibition regulations Safety Information Sheet has been created on a voluntary basis.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

1 abbi o Hatione	she and asion jine.		
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European		
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)		
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the		
	International Carriage of Dangerous Goods by Road)		
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
2/16/2017	CP on	6/	

IgG / IgM / IgA Control Sera (negative, cut off, positive control), CSF Standards, Al-Control, IgG Standards, Validation Control (containing IgG), Pipetting control in buffer ZB200.3

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Code for Dangerous Goods	
LC50	Median lethal concentration	
LOAEL Lowest Observed Adverse Effect Level		
NOAEC No-Observed Adverse Effect Concentration		
NOAEL No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID Regulations concerning the International Carriage of Dangerous Goods by Rail		
STP Sewage treatment plant		
vPvB	Very Persistent and Very Bioaccumulative	
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.	
Department issuing data specification sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
Phone: +49 6155-8981-400Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522Contact person: Dr. Faiza KhanOther information: None.		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/29/2017 Revision date: 3/29/2017 Version: 1.00

SECT	ION 1: Identification of the sub	ostance/mixture and of the company/undertaking	
1.1.	Product identifier		
Trade n	ame	: IgG / IgM / IgA Control Sera (negative, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7	
Article n	number	 110101, 110102, 110103, 110801, 110802, 110803, 110804, 110805, 110806, 111804, 111805, 111806, 113001, 113002, 113003, 113004, 113005, 113006, 113101, 113102, 113103, 113104, 113105, 113106, 121401, 121402, 121403, 121416, 121417, 121418, 121554, 121555, 121556, DE226C61, DE226C62, UWE227C60, UWE227C80, UWE227N10, UWE227P60, UWE227P80, WE102N10, WE102P60, WE102P80, WE116N20, WE116P40, WE116P60, WE130N60, WE130P60, WE150N10, WE150P60, WE150P80, WE214C40, WE214C60, WE214C80, WE214N50, WE214P40, WE214P60, WE214P80, WE222N10, WE222P60, WE222P80, WE223N60, WE223P60, WE224P10, WE224P80, WE225N60, WE225P60, WE242N20, WE242P40, WE242P60, WE243P40, WE243P40, WE243P60, GSD-10701, GSD01-1022-CAL, GSD01-1022-PC, GSD01-1023-CAL, GSD01-1023-PC 	
Synonyi	ms	: [CONTRL NEG, POS, CO, CAL, HRC, LRC IgM IgG IgA]	
1.2.	Relevant identified uses of the sub-	stance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
	the substance/mixture	: In vitro diagnostics	
1.2.2.	Uses advised against		
1.3.	tional information available Details of the supplier of the safety	dete abaat	
Löwenp 65428 F	er n Diagnostics GmbH	Email competent person sds@kft.de	
qualitym	nanagement@virotechdiagnostics.com		
1.4.	Emergency telephone number		
Emerge	ncy number	National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111	
		National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47	
		Northern Ireland: call your local General Practitioner	
		Call 999 if there is a life-threatening incident.	
SECT	ION 2: Hazards identification		
2.1.	Classification of the substance or r	nixture	
Classifi	ication according to Regulation (EC) I	No. 1272/2008 [CLP]	
	nsitisation, Category 1 H317		
Full text	t of hazard classes and H-statements : s	ee section 16	

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]				
Hazard pictograms (CLP)	GHS07			
Signal word (CLP)	: Warning			
Hazardous ingredients	: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)			
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction			
Precautionary statements (CLP)	: P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P333+P313 - If skin irritation or rash occurs: Get medical advice/attention			

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methyl-2H-isothiazol-3-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Specific concentration limits:			
Name	Product identifier	Specific c	oncentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(0.06 = <c <<br="">(0.06 =<c <<="" td=""><td>5) Skin Sens. 1, H317 < 0.6) Eye Irrit. 2, H319 < 0.6) Skin Irrit. 2, H315</td></c></c>	5) Skin Sens. 1, H317 < 0.6) Eye Irrit. 2, H319 < 0.6) Skin Irrit. 2, H315

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. First-aid measures after eye contact : Rinse eyes with water as a precaution. : Call a poison center or a doctor if you feel unwell. First-aid measures after ingestion 4.2. Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

(C >= 0.6) Skin Corr. 1B, H314

Symptoms/effects after skin contact

3/29/2017

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4.3. Indication of any immediate medical attention and special treatment needed				
Treat symptomatically.				
SECTION 5: Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.			
Unsuitable extinguishing media	: No information available.			
5.2. Special hazards arising from the sul	ostance or mixture			
Hazardous decomposition products in case of fire	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.			
5.3. Advice for firefighters				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.			
Other information	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.			
SECTION 6: Accidental release meas	sures			
6.1. Personal precautions, protective equ	uipment and emergency procedures			
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information			
	refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Avoid	sub-soil penetration.			
6.3. Methods and material for containme	nt and cleaning up			
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections	· · · · · · · · · · · · · · · · · · ·			
	coming percental protective equipment to use each costion Q. For further information refer to			
section 13.	cerning personal protective equipment to use, see section 8. For further information refer to			
SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.			
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including	ng any incompatibilities			
Storage conditions	: Store in a well-ventilated place. Keep cool.			
7.3. Specific end use(s)				
In vitro diagnostics.				
SECTION 8: Exposure controls/perse	onal protection			
8.1. Control parameters				
No additional information available				
8.2. Exposure controls				

Appropriate engineering controls:

Ensure good ventilation of the work station.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Environmental exposure controls:

Avoid release to the environment.

SE	9: Physica	al and chem	ical prop	perties

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Liquid
Colour	: colourless.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7 - 7.2 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability a	nd reactivity
-------------------------	---------------

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effect	ts	
Acute toxicity	: Not classified (No data available)	
Skin corrosion/irritation	: Not classified (No data available)	
	pH: 7 - 7.2 (20 °C)	
Serious eye damage/irritation	: Not classified (No data available)	
	pH: 7 - 7.2 (20 °C)	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified (No data available)	
Carcinogenicity	: Not classified (No data available)	
Reproductive toxicity	: Not classified (No data available)	
STOT-single exposure	: Not classified (No data available)	
STOT-repeated exposure	: Not classified (No data available)	
Aspiration hazard	: Not classified (No data available)	

SECTION 12: Ecological information	
12.1 Toxicity	

Ecology - general

: The product has not been tested.

12.2. Persistence and degradabi	ity
IgG / IgM / IgA Control Sera (negative	e, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7
Persistence and degradability	No additional information available.
12.3. Bioaccumulative potential	
IgG / IgM / IgA Control Sera (negative	e, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7
Bioaccumulative potential	No additional information available.
12.4. Mobility in soil	
IgG / IgM / IgA Control Sera (negative	e, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7
Ecology - soil	No additional information available.
12.5. Results of PBT and vPvB a	ssessment
IgG / IgM / IgA Control Sera (negative	e, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7
	the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet	the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects	: No additional information available.
SECTION 13: Disposal consid	lerations
13.1. Waste treatment methods	

SECTION 14: Transport information

Product/Packaging disposal recommendations

Waste treatment methods

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

: Comply with local regulations for disposal.

: Disposal must be done according to official regulations. European waste catalogue.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards			•
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	IgG / IgM / IgA Control Sera (negative, cut off, positive control), IgG-Quantification-Set in buffer ZB200.7 - reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) - 2-methyl-2H-isothiazol-3-one
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) - 2-methyl-2H-isothiazol-3-one

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 16: Other information

Abbreviations and acronyms:

ADN		relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European	
		ning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR		sur le transport des marchandises dangereuses par Route (European Agreement concerning the	
		age of Dangerous Goods by Road)	
BCF	Bioconcentration f		
CLP		elling Packaging Regulation; Regulation (EC) No 1272/2008	
DNEL	Derived-No Effect	Level	
EC50	Median effective c		
IATA	International Air Tr	ransport Association	
IMDG		ime Code for Dangerous Goods	
LC50	Median lethal cond		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccu		
PNEC	Predicted No-Effect		
RID		rning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment		
vPvB	Very Persistent an	d Very Bioaccumulative	
Data sources		: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.	
Department issu	ing data specificatio		
Department issu	ing uala specificatio	Im Leuschnerpark. 3 64347 Griesheim	
		Postfach 1451 64345 Griesheim	
		Germany	
		Phone: +49 6155-8981-400 Fax: +49 6155 8981-500	
A A A		Safety Data Sheet Service: +49 6155 8981-522	
Contact person		: Dr. Faiza Khan	
Other information	n	: None.	
Full text of H- ar	nd EUH-statements:		
Acute Tox. 3 (De		Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inf		Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)		Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4	
Aguatic Acute 1		Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1		Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Skin Corr. 1		Skin corrosion/irritation, Category 1	
Skin Corr. 1B		Skin corrosion/irritation, Category 1B	
Skin Sens. 1		Skin sensitisation, Category 1	
STOT SE 3		Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H301		Toxic if swallowed	
H301 H302		Harmful if swallowed	
H311		Toxic in contact with skin	
H314		Causes severe skin burns and eye damage	
H317		May cause an allergic skin reaction	
H331		Toxic if inhaled	
H335		May cause respiratory irritation	
H400		Very toxic to aquatic life	
H400 H410		Very toxic to aquatic life with long lasting effects	
	a proceaure used to	derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:	
Skin Sens. 1		H317 Calculation method	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/16/2017 Revision date: 3/16/2017 Version: 1.00



	stance/mixture and of the company/undertaking
1.1. Product identifier Trade name	: RF-SorboTech
Article number	: 161101, 161102, UB/300.15
Synonyms	: [RFSORBO]
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: In vitro diagnostics
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety	data sheet
Supplier	Email competent person
Virotech Diagnostics GmbH Löwenplatz 5	sds@kft.de
65428 Rüsselsheim - Deutschland	
T +49 6142-69090	
gualitymanagement@virotechdiagnostics.com	
1.4. Emergency telephone number	
Emergency number	: National Poison Information Service (NPIS)
	24 hour national number professionals only 0844 892 0111
	National Health Service (NHS)
	24 hour national number consumer
	England and Scotland: 111 Wales: 0845 46 47
	Northern Ireland: call your local General Practitioner
	Call 999 if there is a life-threatening incident.
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	nixture
Classification according to Regulation (EC) N	lo. 1272/2008 [CLP]
Not classified	
Adverse physicochemical, human health and	environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) No. 12 No labelling applicable	272/2008 [CLP]
2.3. Other hazards	
2.3. Other hazards	

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

3.2. **Mixtures**

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTI	ON 4: First aid measures	
4.1.	Description of first aid measures	
First-aid	measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid	measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid	measures after eye contact	: Rinse eyes with water as a precaution.
First-aid	measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2.	Most important symptoms and effe	cts, both acute and delayed
No addit	ional information available	
4.3.	Indication of any immediate medica	I attention and special treatment needed
Treat syr	mptomatically.	
SECTI	ON 5: Fire-fighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
	ble extinguishing media	: No information available.
5.2.	Special hazards arising from the su	bstance or mixture
Hazardo fire	us decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3.	Advice for firefighters	
Protectio	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other inf	formation	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
SECTI	ON 6: Accidental release mea	sures
6.1.	Personal precautions, protective eq	uipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2.	For emergency responders	
	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters. Avoid	d sub-soil penetration.
6.3.	Methods and material for containme	ent and cleaning up
Methods	for cleaning up	: Take up liquid spill into absorbent material.
Other inf	formation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	
Informati section 1		ncerning personal protective equipment to use, see section 8. For further information refer to
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
	measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated
Hygiene		clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Hygiene 7.2.	Conditions for safe storage, includi	after handling the product.
7.2.		after handling the product.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

7.3. Specific end use(s)

In vitro diagnostics.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	9.1. Information on basic physical and chemical properties		
Physical state	: Liquid		
Colour	: light yellow.		
Odour	: odourless.		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Not applicable		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Water: Soluble		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available.		
Oxidising properties	: Non oxidizing.		
Explosive limits	: No data available		
9.2. Other information			

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available)
Serious eye damage/irritation	: Not classified (No data available)
Respiratory or skin sensitisation	: Not classified (No data available)
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1.ToxicityEcology - general

: The product has not been tested.

12.2. Persistence and degrad	lability		
RF-SorboTech			
Persistence and degradability	No additional information available.		
12.3. Bioaccumulative poten	tial		
RF-SorboTech			
Bioaccumulative potential	No additional information available.		
12.4. Mobility in soil			
RF-SorboTech			
Ecology - soil	No additional information available.		
12.5. Results of PBT and vPv	/B assessment		
RF-SorboTech			
This substance/mixture does not m	eet the PBT criteria of REACH regulation, annex XIII		
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

12.6. Other adverse effects

Other adverse effects

: No additional information available.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

- Product/Packaging disposal recommendations
- : Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with		/ IMDG / IATA / ADN
in accordance with	ADR / RID /	/ IIVIDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	r			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards		•	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	n available	L

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition	: A safety data sheet is not required for this product under Article 31 of REACH. This Product
regulations	Safety Information Sheet has been created on a voluntary basis.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 16: Other information

ADDIEVIALIONS	and acronyms: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European	
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Code for Dangerous Goods	
LC50	Median lethal concentration	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
vPvB	Very Persistent and Very Bioaccumulative	
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.	
Department is	suing data specification sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany	
Contact perso	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522 n : Dr. Faiza Khan	

Other information

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

: None.

Anti-dog IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



	ation of the substance/mixture and of the company/undertaking
1.1. Product identifie	
Trade name	: Anti-dog IgG conjugate
Article number	: DC122.31
Synonyms	: [HUND CONJ GOAT IgG]
1.2. Relevant identif	ed uses of the substance or mixture and uses advised against
1.2.1. Relevant identif	ed uses
Use of the substance/mixtu	re : In vitro diagnostics
1.2.2. Uses advised ag	ainst
No additional information a	
1.3. Details of the su	pplier of the safety data sheet
Supplier	Email competent person
Virotech Diagnostics GmbH	
Löwenplatz 5 65428 Rüsselsheim - Deuts	chland
T +49 6142-69090	
qualitymanagement@virote	<u>chdiagnostics.com</u>
1.4. Emergency tele	hone number
Emergency number	: National Poison Information Service (NPIS)
	24 hour national number professionals only 0844 892 0111
	National Health Service (NHS) 24 hour national number consumer
	24 hour national number consumer England and Scotland: 111
	Wales: 0845 46 47
	Northern Ireland: call your local General Practitioner
	Call 999 if there is a life-threatening incident.
SECTION 2: Hazards	identification
	the substance or mixture
Sensitisation — Skin, Cate	o Regulation (EC) No. 1272/2008 [CLP] Iory 1 H317
	and H-statements : see section 16
Adverse physicochemica	, human health and environmental effects
May cause an allergic skin	
2.2. Label elements	
	gulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	· Warning
Signal word (CLP)	: Warning : reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -
Signal word (CLP) Hazardous ingredients	 Warning reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)

Anti-dog IgG conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)

: P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuita	ble extinguishing media	: No information available.	
5.2.	Special hazards arising from the su	ostance or mixture	
Hazard fire	ous decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.	
5.3.	Advice for firefighters		
Protect	ion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
Other in	nformation	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.	

Anti-dog IgG conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACH)			
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personne Emergency procedures	el : Ventilate spillage area. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Prevent entry to sewers and public waters	s. Avoid sub-soil penetration.		
6.3. Methods and material for con	tainment and cleaning up		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			
Information for safe handling. See section section 13.	7. Concerning personal protective equipment to use, see section 8. For further information refer to		
SECTION 7: Handling and stora	age		
7.1. Precautions for safe handling	J		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.		
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, i	ncluding any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.		
7.3. Specific end use(s)			
In vitro diagnostics.			
SECTION 8: Exposure controls	/personal protection		
8.1. Control parameters			

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Anti-dog IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: red.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7.5 - 7.7 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
The pro	The product is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.			
10.4.	10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).			
10.5.	10.5. Incompatible materials		
No additional information available.			
10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECTION 11: Toxicological information			
11.1.	Information on toxicological effects		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)

Anti-dog IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2.	Persistence and degradability		
Anti-do	og IgG conjugate		
Persiste	ence and degradability	No additional information available.	
12.3.	Bioaccumulative potential		
Anti-do	og IgG conjugate		
Bioaccu	umulative potential	No additional information available.	
12.4.	12.4. Mobility in soil		
Anti-do	og IgG conjugate		
Ecology	y - soil	No additional information available.	
12.5. Results of PBT and vPvB assessment			
Anti-do	og IgG conjugate		
This sul	bstance/mixture does not meet the	PBT criteria of REACH regulation, annex XIII	
This su	bstance/mixture does not meet the	vPvB criteria of REACH regulation, annex XIII	
12.6.	Other adverse effects		
Other a	dverse effects	: No additional information available.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance	with ADR	/ RID / IMDG	/ IATA	/ ADN

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	r			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			÷
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport I	nazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	•	No supplementary information	on available	•

Anti-dog IgG conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Anti-dog IgG conjugate - reaction mass of: 5- chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration

Anti-dog IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RID Regulations co	ncerning the International Carriage of Dangerous Goods by Rail		
STP Sewage treatm	Sewage treatment plant		
vPvB Very Persister	Very Persistent and Very Bioaccumulative		
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.		
Department issuing data specific	ation sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany		
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522		
Contact person	: Dr. Faiza Khan		
Other information	: None.		
Full text of H- and EUH-stateme	nts:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
Skin Sens. 1	Sensitisation — Skin, Category 1		
H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
H317	May cause an allergic skin reaction		
H331	Toxic if inhaled		
H400	Very toxic to aquatic life		
H410	Very toxic to aquatic life with long lasting effects		
Classification and procedure use	d to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317 Calculation method		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Anti-dog IgM conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/16/2017 Revision date: 3/16/2017 Version: 1.00



SECT	ION 1: Identification of the	substance/mixture and of the company/undertaking
1.1.	Product identifier	
Trade r	name	: Anti-dog IgM conjugate
Article	number	: DC122.80
Synony	ms	: [HUND CONJ GOAT IgM]
1.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of	the substance/mixture	: In vitro diagnostics
1.2.2.	Uses advised against	
No add	itional information available	
1.3.	Details of the supplier of the sa	fety data sheet
Löwenp 65428 T +49 6	h Diagnostics GmbH blatz 5 Rüsselsheim - Deutschland 5142-69090	Email competent person sds@kft.de
qualityr	nanagement@virotechdiagnostics.cc	<u>m</u> .
1.4.	Emergency telephone number	
Emerge	ency number	: National Poison Information Service (NPIS) 24 hour national number professionals only 0844 892 0111
		National Health Service (NHS) 24 hour national number consumer England and Scotland: 111 Wales: 0845 46 47 Northern Ireland: call your local General Practitioner
		Call 999 if there is a life-threatening incident.
SECT	ION 2: Hazards identification	n
2.1.	Classification of the substance	or mixture
	ication according to Regulation (E	C) No. 1272/2008 [CLP]
	sation — Skin, Category 1 H317	
Full tex	t of hazard classes and H-statements	s : see section 16
	e physicochemical, human health use an allergic skin reaction.	and environmental effects
2.2.	Label elements	
	ng according to Regulation (EC) N pictograms (CLP)	
Signal	word (CLP)	GHS07 : Warning
-	ous ingredients	 warning reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1)
Hazard	statements (CLP)	: H317 - May cause an allergic skin reaction

Anti-dog IgM conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)

: P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C >= 0.0015) Skin Sens. 1, H317 (0.06 = <c 0.6)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.06 =<c 0.6)="" 2,="" <="" h315<br="" irrit.="" skin="">(C >= 0.6) Skin Corr. 1B, H314</c></c>

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Extinguishing media		
Suitable	e extinguishing media	:	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuita	able extinguishing media	:	No information available.
5.2.	Special hazards arising from the su	ıbst	ance or mixture
Hazard fire	ous decomposition products in case of	:	release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3.	Advice for firefighters		
Protect	ion during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other in	nformation	:	Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Anti-dog IgM conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EC) No. 1907/2006 (REACF	1)
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Prevent entry to sewers and public waters. A	void sub-soil penetration.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
Information for safe handling. See section 7. section 13.	Concerning personal protective equipment to use, see section 8. For further information refer to
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	
In vitro diagnostics.	
SECTION 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Anti-dog IgM conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state: LiquidColour: red.Odour: odourless.Odour threshold: No data availablepH: 7.5 - 7.7 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFlash point: No data availableFlash point: No data availablePlanmability (solid, gas): No data availableVapour pressure: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableCoxidising properties: No data availableExplosive limits: No data available	9.1. Information on basic physical and	I chemical properties
Odour: odourless.Odour threshold: No data availablepH: 7.5 - 7.7 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableExplosive properties: No data availableCoxidising properties: No data available	Physical state	: Liquid
Odour threshold: No data availablepH: 7.5 - 7.7 (20 °C)Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableCxidising properties: Non oxidizing.	Colour	: red.
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Relative evaporation rate (butylacetate=1): No data availableMelting point: No data availableFreezing point: No data availableBoiling point: No data availableBoiling point: No data availableFlash point: No data availableAuto-ignition temperature: No data availableDecomposition temperature: No data availableFlammability (solid, gas): No data availableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Odour threshold	: No data available
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Decomposition temperature: No data availableFlammability (solid, gas): Not applicableVapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Flash point	: No data available
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Vapour pressure: No data availableRelative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Decomposition temperature	: No data available
Relative vapour density at 20 °C: No data availableRelative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data availableOxidising properties: Non oxidizing.	Flammability (solid, gas)	: Not applicable
Relative density: No data availableSolubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Vapour pressure	: No data available
Solubility: Water: SolubleLog Pow: No data availableViscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Relative vapour density at 20 °C	: No data available
Log Pow:No data availableViscosity, kinematic:No data availableViscosity, dynamic:No data availableExplosive properties:No data available.Oxidising properties:Non oxidizing.	Relative density	: No data available
Viscosity, kinematic: No data availableViscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Solubility	: Water: Soluble
Viscosity, dynamic: No data availableExplosive properties: No data available.Oxidising properties: Non oxidizing.	Log Pow	: No data available
Explosive properties: No data available.Oxidising properties: Non oxidizing.	Viscosity, kinematic	: No data available
Oxidising properties : Non oxidizing.	Viscosity, dynamic	: No data available
	Explosive properties	: No data available.
Explosive limits : No data available	Oxidising properties	: Non oxidizing.
•	Explosive limits	: No data available

9.2. Other information

No additional information available

SECT	SECTION 10: Stability and reactivity		
10.1.	Reactivity		
The pro	oduct is non-reactive under normal conditions of use, storage and transport.		
10.2.	Chemical stability		
Stable	under normal conditions.		
10.3.	Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No add	itional information available.		
10.6.	Hazardous decomposition products		
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

11.1. Information on toxicological effects	
Acute toxicity	: Not classified (No data available)
Skin corrosion/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)

Anti-dog IgM conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2.	Persistence and degradabil	ty			
Anti-do	og IgM conjugate				
Persiste	ence and degradability	No additional information available.			
12.3.	Bioaccumulative potential				
Anti-do	og IgM conjugate				
Bioaccu	umulative potential	No additional information available.			
12.4.	Mobility in soil				
Anti-do	og IgM conjugate				
Ecology	y - soil	No additional information available.			
12.5.	Results of PBT and vPvB as	sessment			
Anti-dog IgM conjugate					
This su	bstance/mixture does not meet t	ne PBT criteria of REACH regulation, annex XIII			
This su	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
12.6.	Other adverse effects				
Other a	adverse effects	: No additional information available.			

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with ADR	
III accordance with ADIT	

ADR	IMDG	ΙΑΤΑ	ADN	RID	
14.1. UN number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport h	nazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing gro	oup				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environme	ntal hazards	•			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
	No supplementary information available				

Anti-dog IgM conjugate

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Anti-dog IgM conjugate - reaction mass of: 5- chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration

Anti-dog IgM conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RID Regulations conce	erning the International Carriage of Dangerous Goods by Rail
STP Sewage treatment	t plant
vPvB Very Persistent ar	nd Very Bioaccumulative
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department issuing data specificatio	on sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person	: Dr. Faiza Khan
Other information	: None.
Full text of H- and EUH-statements	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Classification and procedure used to	o derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Skin Sens. 1	H317 Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

Anti-horse IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) Date of issue: 3/15/2017 Revision date: 3/15/2017 Version: 1.00



1.1.		
	Product identifier	
Trade r		: Anti-horse IgG conjugate
Article number		: DC122.33
Synony	/ms	: [PFERD CONJ GOAT IgG]
1.2.	Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of	the substance/mixture	: In vitro diagnostics
1.2.2.	Uses advised against	
No add	litional information available	
1.3.	Details of the supplier of the s	afety data sheet
Suppli	er	Email competent person
	h Diagnostics GmbH	sds@kft.de
Löwen 65428	Rüsselsheim - Deutschland	
T +49 6	6142-69090	
quality	nanagement@virotechdiagnostics.	
1.4. -	Emergency telephone number	
Emerge	ency number	: National Poison Information Service (NPIS) 24 hour national number professionals only
		0844 892 0111
		National Health Service (NHS)
		24 hour national number consumer
		England and Scotland: 111 Wales: 0845 46 47
		Northern Ireland: call your local General Practitioner
		Call 999 if there is a life-threatening incident.
		Call 999 if there is a life-threatening incident.
SECT	TION 2: Hazards identificat	Call 999 if there is a life-threatening incident.
	TON 2: Hazards identificati Classification of the substanc	Call 999 if there is a life-threatening incident.
2.1. Classi	Classification of the substanc	Call 999 if there is a life-threatening incident.
2.1. Classi	Classification of the substanc	Call 999 if there is a life-threatening incident.
2.1. Classi Sensiti	Classification of the substanc	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex	Classification of the substance fication according to Regulation sation — Skin, Category 1 H317 at of hazard classes and H-statement	Call 999 if there is a life-threatening incident.
2.1. Classi Sensiti Full tex	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 It of hazard classes and H-statement se physicochemical, human healt	Call 999 if there is a life-threatening incident.
2.1. Classin Sensiti Full tex Advers May ca	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction.	Call 999 if there is a life-threatening incident.
2.1. Classin Sensiti Full tex Advers May ca	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 It of hazard classes and H-statement se physicochemical, human healt	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2.	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction.	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction. Label elements	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction. Label elements ng according to Regulation (EC)	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction. Label elements ng according to Regulation (EC)	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 at of hazard classes and H-statement se physicochemical, human healt suse an allergic skin reaction. Label elements ng according to Regulation (EC)	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli Hazard	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 it of hazard classes and H-statement se physicochemical, human healt use an allergic skin reaction. Label elements ng according to Regulation (EC) pictograms (CLP)	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli Hazarc Signal	Classification of the substanc fication according to Regulation of sation — Skin, Category 1 H317 It of hazard classes and H-statement se physicochemical, human healt use an allergic skin reaction. Label elements ng according to Regulation (EC) I pictograms (CLP)	Call 999 if there is a life-threatening incident.
2.1. Classif Sensiti Full tex Advers May ca 2.2. Labelli Hazarc	Classification of the substance fication according to Regulation of sation — Skin, Category 1 H317 it of hazard classes and H-statement se physicochemical, human healt use an allergic skin reaction. Label elements ng according to Regulation (EC) pictograms (CLP)	Call 999 if there is a life-threatening incident.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Precautionary statements (CLP)

: P280 - Wear protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Name	Product identifier	Specific concentration limits
reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC	(CAS-No.) 55965-84-9	(C >= 0.0015) Skin Sens. 1, H317
no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no.	(EC Index-No.) 613-167-00-5	(0.06 = <c 0.6)="" 2,="" <="" eye="" h319<="" irrit.="" th=""></c>
220-239-6] (3:1)		(0.06 = <c 0.6)="" 2,="" <="" h315<="" irrit.="" skin="" td=""></c>
		(C >= 0.6) Skin Corr. 1B, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

Symptoms/effects after skin contact

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1.	Extinguishing media	
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuita	able extinguishing media	: No information available.
5.2.	Special hazards arising from the su	bstance or mixture
Hazard fire	lous decomposition products in case of	: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides. Sulphur oxides.
5.3.	Advice for firefighters	
Protect	ion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other in	nformation	: Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

	ION 6. Appleantal release	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency person	inel
Emerg	ency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2.	For emergency responders	
Protect	ive equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions	
Prever	t entry to sewers and public wate	ers. Avoid sub-soil penetration.
6.3.	Methods and material for co	ontainment and cleaning up
Method	ts for cleaning up	: Take up liquid spill into absorbent material.
Other i	nformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	\$
••••	ation for safe handling. See secti	s ion 7. Concerning personal protective equipment to use, see section 8. For further information refer to
Informa section	ation for safe handling. See secti	ion 7. Concerning personal protective equipment to use, see section 8. For further information refer to
Informa section	ation for safe handling. See secti 13.	ion 7. Concerning personal protective equipment to use, see section 8. For further information refer to prage
Informa section SECT 7.1.	ation for safe handling. See secti 13. TION 7: Handling and sto	ion 7. Concerning personal protective equipment to use, see section 8. For further information refer to prage
Informa section SECT 7.1. Precau	ation for safe handling. See secti 13. TION 7: Handling and sto Precautions for safe handling	ion 7. Concerning personal protective equipment to use, see section 8. For further information refer to prage ng : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing
Informa section SECT 7.1. Precau	ation for safe handling. See secti 13. ION 7: Handling and sto Precautions for safe handlin tions for safe handling e measures	 For age Ing Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands
Informa section SEC1 7.1. Precau Hygien 7.2.	ation for safe handling. See secti 13. ION 7: Handling and sto Precautions for safe handlin tions for safe handling e measures	 For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning before version of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Informa section SEC1 7.1. Precau Hygien 7.2.	ation for safe handling. See secti 13. TION 7: Handling and sto Precautions for safe handling tions for safe handling e measures Conditions for safe storage	 For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning personal protective equipment and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Informa section SEC1 7.1. Precau Hygien 7.2. Storag 7.3.	ation for safe handling. See secti 13. TION 7: Handling and sto Precautions for safe handling tions for safe handling e measures Conditions for safe storage e conditions	 For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning personal protective equipment to use, see section 8. For further information refer to a section 7. Concerning personal protective equipment and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Informa section SEC1 7.1. Precau Hygien 7.2. Storag 7.3. In vitro	ation for safe handling. See secti 13. TION 7: Handling and sto Precautions for safe handling tions for safe handling e measures Conditions for safe storage e conditions Specific end use(s)	 For a concerning personal protective equipment to use, see section 8. For further information refer to prage ng Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Including any incompatibilities Store in a well-ventilated place. Keep cool.

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. In case of unintended release: Filter A (colour code: brown).

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Colour	: red.
Odour	: odourless.
Odour threshold	: No data available
рН	: 7.5 - 7.7 (20 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity			
10.1.	. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability		
Stable under normal conditions.			
10.3.	Possibility of hazardous reactions		
No dan	gerous reactions known under normal conditions of use.		
10.4.	Conditions to avoid		
None u	nder recommended storage and handling conditions (see section 7).		
10.5.	Incompatible materials		
No additional information available.			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.			
SECT	ION 11: Toxicological information		
11.1.	Information on toxicological effects		

	11.1. Information on toxicological effects		
	Acute toxicity	: Not classified (No data available)	
Skin corrosion/irritation		: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Serious eye damage/irritation	: Not classified (No data available) pH: 7.5 - 7.7 (20 °C)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (No data available)
Carcinogenicity	: Not classified (No data available)
Reproductive toxicity	: Not classified (No data available)
STOT-single exposure	: Not classified (No data available)
STOT-repeated exposure	: Not classified (No data available)
Aspiration hazard	: Not classified (No data available)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product has not been tested.

12.2. Persistence and degrada	ability		
Anti-horse IgG conjugate			
Persistence and degradability	No additional information available.		
12.3. Bioaccumulative potenti	al		
Anti-horse IgG conjugate			
Bioaccumulative potential	No additional information available.		
12.4. Mobility in soil			
Anti-horse IgG conjugate			
Ecology - soil	No additional information available.		
12.5. Results of PBT and vPvB assessment			
Anti-horse IgG conjugate			
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			
12.6. Other adverse effects			
Other adverse effects	: No additional information available.		

SECTION 13: Disposal consideration

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue.

Product/Packaging disposal recommendations

: Comply with local regulations for disposal.

SECTION 14: Transport information

In accordance with	ADR / RID	/ IMDG / IAT	
in accordance with			

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	r			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper	shipping name			·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport I	hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ntal hazards	•		·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	•

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Anti-horse IgG conjugate - reaction mass of: 5- chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	reaction mass of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7], and 2- methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European
	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Median lethal concentration
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration

Anti-horse IgG conjugate Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

RID Regulation	ons concerning the International Carriage of Dangerous Goods by Rail
STP Sewage	treatment plant
vPvB Very Pers	sistent and Very Bioaccumulative
Data sources	: Information provided by the manufacturer. MSDS of the supplier. IUCLID-Dossier from ECHA.
Department issuing data sp	becification sheet: : KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany
	Phone: +49 6155-8981-400 Fax: +49 6155 8981-500 Safety Data Sheet Service: +49 6155 8981-522
Contact person	: Dr. Faiza Khan
Other information	: None.
Full text of H- and EUH-sta	atements
Acute Tox. 3 (Dermal)	Acute toxicity (dermal). Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, Category 1
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Classification and procedur	re used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:
Skin Sens. 1	H317 Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product