

SAFETY DATA SHEET**Strep. Grouping Latex Kit****SECTION 1: Identification of the substance/mixture and of the company/ undertaking****1.1 Product identifier****Product name** : Strep. Grouping Latex Kit

Trade name	Code
Strep. Grouping Latex Kit:	DML1001
Strep. Latex group A	DML1002
Strep. Latex group B	DML1003
Strep. Latex group C	DML1004
Strep. Latex group D	DML1005
Strep. Latex group F	DML1006
Strep. Latex group G	DML1007
Strep. Extraction 1	DML1008
Strep. Extraction 2	DML1009
Strep. Extraction 3	DML1010
Strep. Control	DML1011

Product description : Not available.**Product type** : Liquid.**Other means of identification** : Not available.**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Provides a rapid method for the serological identification of groups A, B, C, D, F and G of the Lancefield groups of streptococci grown on agar plates.

1.3 Details of the supplier of the safety data sheet

Supplier **DIAMONDIAL EEIG**
Administration office:
Divischgasse 4
1210 Vienna
Austria
Tel: +43 (1) 29107461

e-mail address of person responsible for this SDS: info@diamondial.com**1.4 Emergency telephone number****Emergency telephone** : 112 (EU)/ +43-1-4064343

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture product definition: Mixture

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

Strep. Extraction 1- DML1008

Acute Tox. 4, H302

Aquatic Acute 1, H400

Strep. Extraction 2 - DML1009

Met. Corr. 1, H290

Skin Corr. 1, H314

Eye Dam. 1, H318

Strep. Extraction 3 - DML1010

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: DML1002	Not classified.
	DML1003	Not classified.
	DML1004	Not classified.
	DML1005	Not classified.
	DML1006	Not classified.
	DML1007	Not classified.
	DML1008	Xn; R22
		N; R50
	DML1009	C; R35
		Xi; R41
		Xi; R36/38
Physical/chemical hazards	: DML1002	Not applicable.
	DML1003	Not applicable.
	DML1004	Not applicable.
	DML1005	Not applicable.
	DML1006	Not applicable.
	DML1007	Not applicable.
	DML1008	Not applicable.
	DML1009	Not applicable.
	DML1010	Not applicable.
	DML1011	Not applicable.
	Human health hazards	: DML1002
DML1003		Not applicable.
DML1004		Not applicable.
DML1005		Not applicable.
DML1006		Not applicable.
DML1007		Not applicable.
DML1008		Harmful if swallowed.
DML1009		Causes severe burns. Risk of serious damage to eyes.
DML1010		Irritating to eyes and skin.
DML1011		Not applicable.

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SECTION 2: Hazards identification

Environmental hazards	: DML1002	Not applicable.
	DML1003	Not applicable.
	DML1004	Not applicable.
	DML1005	Not applicable.
	DML1006	Not applicable.
	DML1007	Not applicable.
	DML1008	Very toxic to aquatic organisms.
	DML1009	Not applicable.
	DML1010	Not applicable.
	DML1011	Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: May be corrosive to metals.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Very toxic to aquatic life.

Precautionary statements

Prevention

: Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Keep only in original container. Avoid release to the environment.

Response

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or physician.
IF SWALLOWED: Immediately call a POISON CENTRE or physician. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTRE or physician.
IF IN EYES: Immediately call a POISON CENTRE or physician.

Storage

: Not applicable

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.



Hazard Symbol or symbols:

Identification of danger

: Corrosive, Dangerous for the environment

Risk phrases

: R22 – Harmful if swallowed.
R35 – Causes severe burns.
R41 – Risk of serious damage to eyes
R50 – Very toxic to aquatic organisms

SECTION 2: Hazards identification

Safety phrases : S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.
S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S61 – Avoid release to environment. Refer to special instructions/safety data sheet

Hazardous ingredients : Sodium nitrite

Supplemental label elements : Not applicable.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Strep.Extraction 1 DML1008 Sodium nitrite	EC: 231-555-9 CAS: 7632-00-0 Index: 007-010-00-4	>= 5 - < 25	O; R8 T; R25 N; R50	Ox. Sol. 3, H272 Acute Tox. 3, H301 Aquatic Acute 1, H400	[1]
Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	<3	F; R11 T; R23/24/25, R39/23/24/25	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Strep.Extraction 2- DML1009 Acetic acid	EC: 200-580-7 CAS: 64-19-7 Index: 607-200-00-6	<25	R10 C; R35	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Strep.Extraction 3- DML1010 Polyethylene Glycol	REACH #: 01-2119958801-32 EC: 500-038-2 CAS: 25322-68-3	>=1 - <5	Not classified	STOT SE 3, H335 (respiratory tract irritation)	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SECTION 4: First aid measures**4.2 Most important symptoms and effects, both acute and delayed****Potential acute health effects**

Eye Contact	DML1002	No known significant effects or critical hazards
	DML1003	No known significant effects or critical hazards
	DML1004	No known significant effects or critical hazards
	DML1005	No known significant effects or critical hazards
	DML1006	No known significant effects or critical hazards
	DML1007	No known significant effects or critical hazards
	DML1008	No known significant effects or critical hazards
	DML1009	Severely corrosive to the eyes. Causes severe burns.
	DML1010	Irritating to eyes
	DML1011	No known significant effects or critical hazards
	Inhalation	DML1002
DML1003		No known significant effects or critical hazards
DML1004		No known significant effects or critical hazards
DML1005		No known significant effects or critical hazards
DML1006		No known significant effects or critical hazards
DML1007		No known significant effects or critical hazards
DML1008		Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
DML1009		May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
DML1010		Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
DML1011		No known significant effects or critical hazards
Skin contact		DML1002
	DML1003	No known significant effects or critical hazards
	DML1004	No known significant effects or critical hazards
	DML1005	No known significant effects or critical hazards
	DML1006	No known significant effects or critical hazards
	DML1007	No known significant effects or critical hazards
	DML1008	No known significant effects or critical hazards
	DML1009	Severely corrosive to the skin. Causes severe burns.
	DML1010	Irritating to skin
	DML1011	No known significant effects or critical hazards
	Ingestion	DML1002
DML1003		No known significant effects or critical hazards
DML1004		No known significant effects or critical hazards
DML1005		No known significant effects or critical hazards
DML1006		No known significant effects or critical hazards
DML1007		No known significant effects or critical hazards
DML1008		Harmful if swallowed
DML1009		May cause burns to mouth, throat and stomach.
DML1010		Irritating to mouth, throat and stomach.
DML1011		No known significant effects or critical hazards

SECTION 4: First aid measures

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatment	: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use an extinguishing agent for the surrounding fire.
Unsuitable extinguishing media	: None known

5.2 Special hazards arising from the substance or mixtures

Hazards from the substance or mixture	: No specific fire or explosion hazard
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

5.3 Advice for fire-fighters

Special protective actions for fire-fighters	: No special precaution is required.
Special protective Equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure Mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Spill : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulation (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store between the following temperatures: 2°C (36°F) to 8°C (46°F).

Seveso II Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Strep. Extraction 1- DML1008 Methanol	500	5000

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Strep. Extraction 1- DML1008		
E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1	100	200
C9i: Very toxic for the environment	100	200

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product /ingredient name	Exposure limit values
Strep. Extraction 1 - DML1008	
Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Strep. Extraction 2 - DML1009	
Acetic Acid	EU OEL (Europe, 12/2009). TWA: 25 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Recommended monitoring Procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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SECTION 8: Exposure controls/personal protection

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Strep. Extraction 3 – DML1010					
Polyethylene Glycol	DNEL	Inhalation	0,418162281 mg/m ³	Workers	-
	DNEL	Dermal	0,418162281 mg/kg bw/day	Workers	-

PNECS

no PNECS available

8.1 Exposure Controls

Appropriate engineering Controls : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or a face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State	:		
		DML1002	Liquid. [Suspension.]
		DML1003	Liquid. [Suspension.]
		DML1004	Liquid. [Suspension.]
		DML1005	Liquid. [Suspension.]
		DML1006	Liquid. [Suspension.]
		DML1007	Liquid. [Suspension.]
		DML1008	Liquid. [Solution.]
		DML1009	Liquid. [Solution.]
		DML1010	Liquid. [Solution.]
		DML1011	Liquid. [Solution.]
Colour	:		
		DML1002	Blue.
		DML1003	Blue.
		DML1004	Blue.
		DML1005	Blue.
		DML1006	Blue.
		DML1007	Blue.
		DML1008	Yellow, transparent.
		DML1009	Red, transparent.
		DML1010	Blue, transparent.
		DML1011	Colourless, clear.
Odour	:		Not available
Odour threshold	:		Not available

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SECTION 9: Physical and chemical properties

pH:	:	DML1002	8
		DML1003	8
		DML1004	8
		DML1005	8
		DML1006	8
		DML1007	8
		DML1008	7,5
		DML1009	2
		DML1010	7,8
		DML1011	6 to 7
Melting point/freezing point	:		Not available
Initial boiling point and boiling range	:		Not available
Flash point	:		Not available
Evaporation rate	:		Not available
Flammability (solid, gas)	:		Not available
Upper/lower flammability or explosive limits	:		Not available
Vapour pressure	:		Not available
Vapour density	:		Not available
Relative density	:		Not available
Solubility(ies)	:		Not available
Partition coefficient: n-octanol/water	:		Not available
Auto-ignition temperature	:		Not available
Decomposition temperature	:		Not available
Viscosity	:		Not available
Explosive properties	:		Not available
Oxidising properties	:		Not available

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

- 10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 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

Product/ingredient name	Result	Species	Dose	Exposure
Strep. Extraction 1 - DML1008				
Sodium Nitrate	LD50 Oral	Rat	85mg/kg	-
Methanol	LC50 Inhalation Gas	Rat	145000 ppm	1 hour
	LC50 Inhalation Gas	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Strep. Extraction 2 - DML1009				
Acetic Acid	LC50 Inhalation Vapour	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Strep. Extraction 1 - DML1008					
Sodium Nitrate Methanol	Eyes – Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes – Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin – Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes – Moderate irritant	Rabbit	-	40 mg	-

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SECTION 11: Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Strep. Extraction 2 - DML1009 Acetic Acid	Eyes – Mild irritant Skin – Mild irritant Skin – Mild irritant Skin – Severe irritant	Rabbit Human Rabbit Rabbit	- - - -	0,5 minutes 5 mg 24 hours 50 mg 24 hours 50 mg 525 mg	- - - -
Strep. Extraction 3 - DML1010 Polyethylene Glycol	Eyes – Mild irritant Eyes – Mild irritant Skin – Mild irritant Skin – Mild irritant	Rabbit Rabbit Rabbit Rabbit	- - - -	24 hours 500 mg 500 mg 24 hours 500 mg 500 mg	- - - -

Sensitisation

There is no data available.

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

SECTION 11: Toxicological information**Potential acute health effects**

Eye contact	:	DML1002	No known significant effects or critical hazards.
		DML1003	No known significant effects or critical hazards.
		DML1004	No known significant effects or critical hazards.
		DML1005	No known significant effects or critical hazards.
		DML1006	No known significant effects or critical hazards.
		DML1007	No known significant effects or critical hazards.
		DML1008	No known significant effects or critical hazards.
		DML1009	Severely corrosive to the eyes. Causes severe burns.
		DML1010	Irritating to eyes.
		DML1011	No known significant effects or critical hazards.
	Inhalation	:	DML1002
		DML1003	No known significant effects or critical hazards.
		DML1004	No known significant effects or critical hazards.
		DML1005	No known significant effects or critical hazards.
		DML1006	No known significant effects or critical hazards.
		DML1007	No known significant effects or critical hazards.
		DML1008	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		DML1009	May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
		DML1010	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		DML1011	No known significant effects or critical hazards.
Skin contact		:	DML1002
		DML1003	No known significant effects or critical hazards.
		DML1004	No known significant effects or critical hazards.
		DML1005	No known significant effects or critical hazards.
		DML1006	No known significant effects or critical hazards.
		DML1007	No known significant effects or critical hazards.
		DML1008	No known significant effects or critical hazards.
		DML1009	Severely corrosive to the skin. Causes severe burns.
		DML1010	Irritating to skin.
		DML1011	No known significant effects or critical hazards.
	Ingestion	:	DML1002
		DML1003	No known significant effects or critical hazards.
		DML1004	No known significant effects or critical hazards.
		DML1005	No known significant effects or critical hazards.
		DML1006	No known significant effects or critical hazards.
		DML1007	No known significant effects or critical hazards.
		DML1008	Harmful if swallowed.
		DML1009	May cause burns to mouth, throat and stomach.
		DML1010	Irritating to mouth, throat and stomach.
		DML1011	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

- Eye Contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

- General** : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Development effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

- Other information** : Not available

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SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
Strep. Extraction 1 - DML1008 Sodium nitrite	Acute EC50 159000 µg/L Marine water	Algae - Tetraselmis chuii	72 hours	
	Acute EC50 1600000 µg/L Marine water	Algae - Tetraselmis chuii	96 hours	
	Acute LC50 1100 µg/L Fresh water	Crustaceans - Cherax quadricarinatus	48 hours	
	Acute LC50 48 µg/L Fresh water	Fish - Ictalurus punctatus - Fingerling	96 hours	
	Chronic NOEC 0.912 mg/L Marine water	Fish - Hippocampus abdominalis - Juvenile (Fledgling, Hatchling, Weanling)	35 days	
	Methanol	Acute EC50 16.912 mg/L Marine water	Algae - Ulva pertusa	96 hours
		Acute EC50 10000000 µg/L Fresh water	Daphnia - Daphnia magna	48 hours
		Acute LC50 2500000 µg/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
		Acute LC50 100 mg/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Strep. Extraction 2 - DML1009 Acetic Acid	Chronic NOEC 9.96 mg/L Marine water	Algae - Ulva pertusa	96 hours
Acute EC50 73400 µg/L Fresh water		Algae - Navicula seminulum	96 hours	
Strep. Extraction 3 - DML1010 Polyethylene Glycol	Acute EC50 65000 µg/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
	Acute LC50 50.1 µl/L Marine water	Crustaceans - Artemia sp.	48 hours	
	Acute LC50 75000 µg/L Fresh water	Fish - Lepomis macrochirus	96 hours	
	Acute LC50 >1000000 µg/L Fresh water	Fish - Salmo salar – Parr	96 hours	

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Strep. Extraction 1 - DML1008 Sodium nitrite	-	-	Readily

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SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Strep. Extraction 1 - DML1008			
Sodium Nitrate	-3,7	-	low
Methanol	-0,77	<10	low
Strep. Extraction 2 - DML1009			
Acetic Acid	-0,17	3,16	low
Strep. Extraction 3 - DML1010			
Polyethylene Glycol	-	3,2	low

12.4 Mobility in soil

Soil water partition coefficient (K_{oc}) : There's no data available.

Mobility : There is no data available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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SECTION 13: Disposal considerations

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CHEMICAL KIT (Sodium nitrite, Acetic Acid)	CHEMICAL KIT (Sodium nitrite, Acetic Acid)	CHEMICAL KIT (Sodium nitrite, Acetic Acid)	CHEMICAL KIT (Sodium nitrite, Acetic Acid)
14.3 Transport hazard class(es)	8 	8 	8 	8
14.4 Packaging group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	No.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> (E) <u>Remarks</u> Limited Quantity Exemption	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Remarks</u> Limited Quantity Exemption	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules (EmS)</u> F-A, S-B <u>Remarks</u> Limited Quantity Exemption	The environmentally hazardous substance mark may appear if required by other transportation regulations. <u>Remarks:</u> Limited Quantity Exemption

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV – List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII – Restriction : Not applicable.
**on the manufacture,
placing on the market
and use of certain
dangerous substances,
mixtures and articles**

Other EU Regulations

Europe inventory : Not applicable.

Seveso II Directive

This product is controlled under the Seveso II Directive.

Named substances

Name
Strep. Extraction 1 – DML1008 Methanol

Danger criteria

Category
Strep. Extraction 1 – DML1008 E1: Hazardous to the aquatic environment - Acute 1 or Chronic 1 C9i: Very toxic for the environment

15.2 Chemical Safety assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms

: ATE = Acute Toxic Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH Statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RPN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

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SECTION 16: Other information

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

Strep. Extraction 1 - DML1008

Acute Tox. 4, H302
Aquatic Acute 1, H400

Strep. Extraction 2 - DML1009

Met. Corr. 1, H290
Skin Corr. 1, H314
Eye Dam. 1, H318

Strep. Extraction 3 - DML1010

Skin Irrit. 2, H315
Eye Irrit. 2, H319

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Strep. Extraction 1- DML1008 Acute Tox. 4, H302 Aquatic Acute 1, H400	Expert judgment Expert judgment
Strep. Extraction 2 - DML1009 Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318	Expert judgment Expert judgment Expert judgment
Strep. Extraction 3 - DML1010 Skin Irrit. 2, H315 Eye Irrit. 2, H319	Expert judgment Expert judgment

Full text of abbreviated H statements

DML1008	
H225	Highly flammable liquid and vapour.
H272.	May intensify fire; oxidiser
H301	Toxic if swallowed..
H302	Harmful if swallowed.
H311	Toxic in contact with skin
H331	Toxic if inhaled.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
DML1009	
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
DML1010	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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SECTION 16: Other information

Full text of classifications [CLP/GHS]	DML1008	Acute Tox. 3, H301 ACUTE TOXICITY: ORAL - Category 3 Acute Tox. 3, H311 ACUTE TOXICITY: SKIN - Category 3 Acute Tox. 3, H331 ACUTE TOXICITY: INHALATION - Category 3 Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4 Aquatic Acute 1, H400 AQUATIC TOXICITY (ACUTE) - Category 1 Flam. Liq. 2, H225 FLAMMABLE LIQUIDS - Category 2 Ox. Sol. 3, H272 OXIDISING SOLIDS - Category 3 STOT SE 1, H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
	DML1009	Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Met. Corr. 1, H290 CORROSIVE TO METALS - Category 1 Skin Corr. 1, H314 SKIN CORROSION/IRRITATION - Category 1 Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A
	DML1010	Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [[Respiratory tract irritation] - Category 3

Full text of abbreviated R phrases : R8- Contact with combustible material may cause fire.
R25- Toxic if swallowed.
R22- Harmful if swallowed.
R35- Causes severe burns.
R41- Risk of serious damage to eyes.
R50- Very toxic to aquatic organisms.

Full text of classifications [DSD/DPD] : O – Oxidising
T – Toxic
C – Corrosive
Xn – Harmful
Xi – Irritant
N – Dangerous for the environment

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.