

Material Safety Data Sheet (MSDS) Influenza A/B RSV & Respiratory Viral Panel (RVP) Test

1. Product and Company Identification

Product Description	Influenza A/B RSV Test Cartridge for use with the MiniLab Respiratory Viral Panel (RVP) Test Cartridge for use with the MiniLab
Manufactured by	Enigma Diagnostics Ltd.
Contact details	Building 224 Tetricus Science Park Porton Down Salisbury, Wiltshire SP4 0JQ United Kingdom +44 (0)1980 590131 Tel +44 (0)1980 590132 Fax +44 (0)1980 590143 DDI
Kit Components	Lysis Buffer Binding Buffer Wash Buffer RNase-Free Water Product MagnaCel™ Particles Lyophilised Influenza A/B RSV test beads Lyophilised MS2
Product type	The kit contains freeze dried beads and liquid reagents within sealed ampoules of the test cartridge.


2. Hazard Identification

Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Lysis buffer	GHS07 health hazard. Acute Tox. 4, H302 - Harmful if swallowed. Skin Irrit. 2, H315 - Causes skin irritation. Eye Irrit. 2, H319 - Causes serious eye irritation.
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Label elements according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms	 GHS07
Signal word	Lysis buffer: Warning
Hazard-determining components of labelling	Lysis buffer: Guanidinium chloride
Hazard statements	Lysis buffer: H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation.



Precautionary statements	Lysis buffer: P280: Wear protective gloves/protective clothing/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. P321: Specific treatment (see on this label). P362: Take off contaminated clothing and wash before reuse. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	Results of PBT and vPvB assessment: Not applicable

Binding Buffer, Wash Buffer, RNase-Free Water Product, MagnaCel™ Particles, lyophilised Influenza A/B RSV test beads and lyophilised MS2 beads are not considered as hazardous substances or mixtures under Regulation (EC) No 1272/2008

Biological Hazards

The MS2 bacteriophage is not known to contain any agents capable of harm to humans the possibility of a contaminant cannot be excluded.

3. Composition

This product is a mixture of unlisted non-hazardous substances along with hazardous additions as listed below:

Lysis buffer Chemical Characterization: Mixture

Components	CAS	EINECS	% composition	CLP/GHS classification
Guanidinium chloride	50-01-1	200-002-3	25-50%	H302, H315, H319
Sodium dodecyl sulphate	151-21-3	205-788-1	<1.00%	H228, H311, H302, H315, H319, STOT SE 3, H335

Binding and wash buffer chemical characterization: Mixture

Components	CAS	EINECS	% composition	CLP/GHS classification
Polyethylene glycol 400 dodecyl ether	9002-92-0		Binding buffer: 10-15% Wash buffer: 5-10%	H318, H315

4. First Aid Measures

After inhalation	If breathing difficulties should occur, move person to a well ventilated area and call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
After skin contact	Lysis buffer may cause skin irritation: Immediately wash with soap and water thoroughly. Consult a doctor if irritation continues.
After eye contact	Rinse opened eye under running water for several minutes. If skin irritation occurs consult a doctor.
After swallowing	Rinse mouth with water and if symptoms persist consult a doctor. Lysis buffer: Call for doctor immediately and seek medical advice.
General info	Lysis buffer: Symptoms of poisoning may even occur after several hours; therefore medical observation is recommended for at least 48 hours after the accident.

5. Firefighting measures

Suitable extinguishing agents/media	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture	None known.
Advice for firefighters	No special advice.





6. Accidental release measures

Personal precautions, protective equipment and emergency	Wear protective clothing.
Environmental precautions	Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections	See Section 7 for information on safe handling. See Section 13 for disposal information.

7. Handling and Storage

Precautions for safe handling

Avoid skin and eye contact
Prevent formation of aerosols

Precaution for storage

Store according to product label
Keep cartridges tightly sealed in a cool, well ventilated place.

8. Exposure control/personal protection

Workplace exposure limits (WEL)	The cartridge contains no substances with workplace exposure limits
General protective and hygienic measures	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands after handling material (especially before eating/drinking). Avoid contact with skin and eyes. Facilities storing or using this product should be equipped with a sink and eyewash station
Respiratory protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Skin protection	Wear protective gloves and lab coat. Base the selection of the glove material on potential for skin contact and work procedure.
Eye protection	Wear safety glasses with side shields

9. Physical and chemical properties

Appearance	Beads are solid white components and liquids are clear.
Odour	Characteristic
Odour threshold	Not determined.
pH-value at 20 °C	Not determined.
Melting point/Melting range	Undetermined
Boiling point/Boiling range	Binding buffer: 100°C
Flash point	> 100 °C
Flammability (solid, gaseous)	Not applicable.
Ignition temperature	Not determined.
Decomposition temperature	Not determined.
Self-igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	Not determined.
Vapour pressure at 20 °C	0.1 hPa





Density	MagnaCel particles: 1.10242g/cm ² @ 20°C
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water	Fully miscible.
Partition coefficient (n-octanol/water)	Not determined.
Viscosity	Dynamic: Not determined. Kinematic: Not determined.
Water	Lysis buffer: 26.9% Binding buffer: 80.4% Wash buffer: 86.4% MagnaCel particles: 99.0%
Solids content	Binding buffer: 7.7% Wash buffer: 7.7% MagnaCel particles: 6.1%
Other information	No further relevant information available.

10. Stability and Reactivity

Reactivity	No information identified.
Chemical stability	No decomposition if used according to specifications.
Possibility of hazardous reactions	Lysis Buffer: Reacts with strong acids and oxidising agents.
Conditions to avoid	No further relevant information available.
Incompatible materials	Lysis buffer: Oxidising agents.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological information

Acute toxicity	Guanidinium chloride acute oral LD50 = 475 mg/kg (rat)/ 500mg (rabbit).
Primary irritant effect on the skin	Guanidinium chloride - irritant to skin and mucous membranes.
Primary irritant effect on the eye	Guanidinium chloride - irritating effect.

12. Ecological information

Aquatic toxicity	Not harmful to the aquatic environment.
Persistence and degradability	Not available.
Bioaccumulative potential	Not known.
Mobility in soil	Not known.
Other information	Water hazard class 1 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal Considerations

Recommendation

Used cartridges and biological samples should be treated as an infectious agent. Disposal should be in accordance with applicable regional, national and local laws and regulations. Consult your institutions environmental waste disposal personal on the appropriate disposal procedure for used and unused cartridges.

14. Transport information

UN-Number	None
UN proper shipping name	None
Transport hazard class(es)	None
ADN/R Class:	Not regulated
Packing group	None
Environmental hazards	None
Special precautions for user	Not applicable.





15. Regulatory Information

Water Hazard class: Water hazard class 1.

Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

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