

Safety Data Sheet (EU):

PATsmart™ ConfiRM® Slope Reference Materials (Ultra High, MRM-08)

Data Sheet

This data sheet contains important safety information regarding PATsmart™ ConfiRM® Slope Reference Materials.

**Repligen does not manufacture ConfiRM. ConfiRM is manufactured exclusively
for Repligen by NSI Lab Solutions.**

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1. Identification

Product Identifier	
Trade name	MRM-08
Application of the substance/mixture	For Laboratory Use Only
Name address, and telephone number of the chemical manufacturer, importer, or other responsible party	
Manufacturer/Supplier	
Registered company name	NSI Lab Solutions
Address	7212 ACC Blvd., Raleigh, NC 27617 USA
Information department	Product safety department
Emergency Telephone	(During normal opening times) +1 919-789-3000
Distributor	
Registered company name	Repligen Corporation
Address	685 Route 202/206, Bridgewater, NJ 08807 United States
Telephone	+1 908-707-1009
Website	www.repligen.com
Email	analytics-support@repligen.com

2. Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The product is not classified, according to the CLP regulation.

Label Elements	
Labelling according to Regulation (EC) No 1272/2008	Void
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Other hazards—Results of PBT and vPvB assessment	
PBT	Not applicable
vPvB	Not applicable

3. Composition/Information on Ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous Components

Chemical Name	Toxicity Warning	CAS Number	EINECS	%[Weight]
Caffeine	 Acute Tox. 4, H302	58-08-2	200-362-1	1.082

Non-Hazardous Components

Chemical Name	CAS Number	EINECS	%[Weight]
Water, distilled, conductivity or of similar purity	7732-18-5	231-791-2	98.918

4. First-Aid Measures**Description of First Aid Measures**

Hazard	Response
General Information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	If symptoms persist consult doctor.
Information for doctor	Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Fire-Fighting Measures

Extinguishing Media	
Suitable extinguishing agents	Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture	No further relevant information available.
Advice for firefighters	Protective equipment: No special measures required.

6. Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Not required.

Environmental precautions

Dilute with plenty of water.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7. Handling and Storage**Precautions for safe handling**

Handling

Precautions for safe handling	No special measures required.
Information about protection against explosions and fires	No special measures required.

Conditions for safe storage, including any compatibilities**Storage**

Requirements to be met by storerooms and receptacles	No special requirements.
Information about storage in one common storage facility	Not required.
Further information about storage conditions	None.
Specific end use(s)	No further relevant information available.

8. Exposure Controls/Personal Protection**Control Parameters**

Components with limit values that require monitoring at the workplace	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information	The lists that were valid during the creation were used as basis.

Exposure Controls

Appropriate engineering controls	No further data; see item 7.
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Individual protection measures, such as personal protective equipment

General protective and hygienic measures	The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection	Not required.
Hand protection	- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Goggles recommended during refilling.

9. Physical & Chemical Properties**Information on basic physical and chemical properties****General Information****Appearance**

Form	Fluid
Colour	Colourless
Odour	Odourless

Odour Threshold	Not determined
Melting point/freezing point	0°C
Boiling point or initial boiling point and boiling range	100°C (7732-18-5 water, distilled, conductivity or of similar purity)
Flammability	Not applicable.
Explosion limits	
Lower	Not determined.
Upper	Not determined.
Flash point	Not applicable.
Decomposition temperature	Not determined.
pH	Not determined.
Viscosity	
Kinematic viscosity	Not determined.
Dynamic at 20°C	0.952 mPas
Solubility	
Water	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20°C	23 hPa (7732-18-5 water, distilled, conductivity or of similar purity)
Density and/or relative density	
Density at 20°C	1.00249 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Important information on protection of health and environment, and on safety	
Auto-ignition temperature	Product is not selfigniting.
Explosive properties	Product does not present an explosion hazard.
Solvent Content	
Water	98.9 %
VOC (EC)	0.00 %
Solids content	1.1 %
Molecular weight	18.02 g/mol
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void

Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

10. Stability & Reactivity Information

Property	Description
Reactivity	No further relevant information available.
Chemical stability	
Thermal decomposition/conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological Information

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Hazard	Description
Acute toxicity	
LD/LC50 values that are relevant for classification	
ATE (Acute Toxicity Estimates)	Oral, LD50, 17,745 mg/kg (rat)
58-08-2 caffeine	Oral, LD50, 192 mg/kg (rat)
Primary irritant effect	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Information on other hazards	
Endocrine disrupting properties	None of the ingredients is listed.

12. Ecological Information

Toxicity	
Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Results of PBT and vPvB assessment	
PBT	Not applicable.
vPvB	Not applicable.
Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
Other adverse effects	No further relevant information available.
Additional ecological information	
General notes	Not hazardous for water.

13. Disposal Considerations

Disposal Considerations	
Waste treatment methods	
Recommendation	Smaller quantities can be disposed of with household waste.
Uncleaned packagings	
Recommendation	Disposal must be made according to official regulations.
Recommended cleansing agent	Water, if necessary with cleansing agents.

14. Transport Information

Transport Information	
UN number or ID number: ADR, IMDG, IATA	Not regulated
UN proper shipping name: ADR, IMDG, IATA	Not regulated
Transport hazard class(es): - ADR, ADN, IMDG, IATA - Class	Not regulated
Packing group: ADR, IMDG, IATA	Not regulated
Environmental hazards	Not applicable
Special precautions for user	Not applicable
Maritime transport in bulk according to IMO instruments	Not applicable
UN "Model Regulation"	Not regulated

15. Regulatory Information

Regulatory Information	
Directive 2004/42/EC	None of the ingredients is listed.
Directive 2012/18/EU Named dangerous substances - ANNEX I	None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II	None of the ingredients is listed.
REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))	None of the ingredients is listed.
Annex II - REPORTABLE EXPLOSIVES PRECURSORS	None of the ingredients is listed.
Regulation (EC) No 273/2004 on drug precursors	None of the ingredients is listed.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	None of the ingredients is listed.
Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

Department issuing SDS: Environment protection department.

Contact: Department Technical Manager

Abbreviations and acronyms

ADR	<i>Accord relatif au transport international des marchandises dangereuses par route</i> (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
VOC	Volatile Organic Compounds (USA, EU)
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Acute Tox. 4	Acute toxicity – Category 4