# SAFETY DATA SHEET



Ethylene Glycol 25%

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : Ethylene Glycol 25%

Product type : Liquid.

Other means of : ethane-1,2-diol

identification

Product part number : R8365

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Coolants/ Refrigerant.

Area of application : Industrial applications.

**Uses advised against** 

None identified.

### 1.3 Details of the supplier of the safety data sheet

Molecular Devices (UK) Ltd 660-665 Eskdale Road Winnersh Triangle Workingham, RG41 5TS United Kingdom

e-mail address of person responsible for this SDS

person: msdsinquiry@moldev.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : CHEMTREC (24 hours): 1-800-424-9300 (USA/Canada),

+1 703-527-3887 (Outside USA/Canada)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown : 25 percent of the mixture consists of component(s) of unknown acute inhalation

**toxicity** toxicity

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

2.2 Label elements

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

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# **SECTION 2: Hazards identification**

## **Precautionary statements**

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label

elements

: Safety data sheet available on request.

Annex XVII - Restrictions on the manufacture, placing on the market and

use of certain dangerous substances, mixtures and

articles

## **Special packaging requirements**

Containers to be fitted with child-resistant

fastenings

: Not applicable.

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Type

Product meets the criteria for PBT or vPvB according

to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
Water	UK (GB) REACH #: Annex IV REACH #: Annex IV EC: 231-791-2 CAS: 7732-18-5	75	Not classified.	[3]
ethanediol	EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	25	Acute Tox. 4, H302	[1] [2]
sodium carbonate	EC: 207-838-8 CAS: 497-19-8 Index: 011-005-00-2	0.01	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the H statements declared above.	

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, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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# **SECTION 3: Composition/information on ingredients**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Additional disclosure due to company policy

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

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# SECTION 5: Firefighting measures

# 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**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 British standard BS 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. 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 the information in "For non-emergency personnel".

**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).

## 6.3 Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. 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 regulations.

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**

## 7.1 Precautions for safe handling

**Protective measures** Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

: 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.

#### 7.2 Conditions for safe storage, including any incompatibilities

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# **SECTION 7: Handling and storage**

Store at room temperature. 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. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values		
ethanediol	EH40/2005 WELs (United Kingdom (UK), 1/2020) Absorbed		
	through skin.		
	TWA 8 hours: 10 mg/m³. Form: Particulate.		
	TWA 8 hours: 20 ppm. Form: Vapour.		
	STEL 15 minutes: 40 ppm. Form: Vapour.		
	TWA 8 hours: 52 mg/m³. Form: Vapour.		
	STEL 15 minutes: 104 mg/m³. Form: Vapour.		
	EU OEL (Europe, 1/2022) Absorbed through skin.		
	TWA 8 hours: 20 ppm.		
	TWA 8 hours: 52 mg/m³.		
	STEL 15 minutes: 40 ppm.		
	STEL 15 minutes: 104 mg/m³.		

#### **Biological exposure indices**

None known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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.

## **DNELs/DMELs**

Product/ingredient name

ethanediol

Result

**DNEL - General population - Long** 

term - Inhalation

7 mg/m³ Effects: Local

**DNEL - Workers - Long term -**

Inhalation 35 mg/m³ Effects: Local

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# **SECTION 8: Exposure controls/personal protection**

**DNEL - General population - Long** 

**term - Dermal** 53 mg/kg bw/day <u>Effects</u>: Systemic

**DNEL - Workers - Long term -**

Dermal

106 mg/kg bw/day Effects: Systemic

sodium carbonate DNEL - General population - Long

term - Inhalation

5 mg/m³ Effects: Local

DNEL - Workers - Long term -

Inhalation 10 mg/m³ Effects: Local

#### **PNECs**

Not available.

### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## **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.

**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** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid.

Colour : Not available. **Odour** : Not available. : Not available. **Odour threshold** 

Melting point/freezing point

Initial boiling point and

boiling range

: -12°C : 102°C

Flammability (solid, gas) : Not available. **Upper/lower flammability or** : Not available.

explosive limits

: Closed cup: Not applicable. Flash point

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
ethanediol	398	748.4	

**Decomposition temperature** 

pН

: Not available. Not available.

**Viscosity** 

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available.

Kinematic (40°C): Not available.

Solubility(ies)

Media	Result
water	Easily soluble

Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapou	Vapour Pressure at 20°C			r pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Water	17.5	2.3		92.258	12.3	

**Evaporation rate** : Not available. : Not available. **Relative density Density** : 1.03 g/cm<sup>3</sup>

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# **SECTION 9: Physical and chemical properties**

Vapour density : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

9.2 Other information

Physical/chemical properties

comments

: No additional information.

# **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. Under normal conditions of storage and use, hazardous polymerisation 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

ethanediol Rat - Oral - LD50

4700 mg/kg

Rabbit - Dermal - LD50

9.5 g/kg

Rat - Dermal - LD50

10600 mg/kg

sodium carbonate Rat - Oral - LD50

4090 mg/kg

Rabbit - Dermal - LD50 EPA

>2000 mg/kg

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# **SECTION 11: Toxicological information**

Conclusion/Summary [Product] : Not available.

### **Acute toxicity estimates**

Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
2000.2 500	N/A 9500	N/A N/A	N/A N/A	N/A N/A N/A
	kg) 2000.2	kg) (mg/kg)  2000.2 N/A 500 9500	kg) (mg/kg) (gases) (ppm)  2000.2 N/A N/A N/A N/A	kg)         (mg/kg)         (gases) (ppm)         (vapours) (mg/l)           2000.2         N/A         N/A         N/A           500         9500         N/A         N/A

Skin corrosion/irritation

Product/ingredient name Result

sodium carbonate Rabbit - Skin - Mild irritant

Duration of treatment/exposure: 24

hours

Amount/concentration applied: 500 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

**Product/ingredient name** 

sodium carbonate

Result

Rabbit - Eyes - Mild irritant

Duration of treatment/exposure: 0.5

minutes

Amount/concentration applied: 100 mg

**Rabbit - Eyes - Moderate irritant**Duration of treatment/exposure: 24

hours

Amount/concentration applied: 100 mg

Rabbit - Eyes - Severe irritant
Amount/concentration applied: 50 mg

**Conclusion/Summary [Product]**: Not available.

Respiratory corrosion/irritation

**Conclusion/Summary [Product]**: Not available.

**Respiratory or skin sensitization** 

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

**Conclusion/Summary [Product]**: Not available.

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# **SECTION 11: Toxicological information**

# **Germ cell mutagenicity**

**Conclusion/Summary [Product]**: Not available.

### Carcinogenicity

**Conclusion/Summary [Product]**: Not available.

## **Reproductive toxicity**

**Conclusion/Summary [Product]**: Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

#### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

# Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Long term exposure

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# **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

**Conclusion/Summary [Product]**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

Other information

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name

ethanediol Acute - LC50 - Fresh water

Effect: Mortality

Fish - Fathead minnow - Pimephales

*promelas* <u>Age</u>: ≤7 days

Result

8050 mg/l [96 hours]

Acute - LC50 - Fresh water Effect: Mortality

Crustaceans - Water flea - Ceriodaphnia dubia - Neonate

6900 mg/l [48 hours]

sodium carbonate Acute - LC50 - Fresh water Effect: Mortality

Fish - Bluegill - Lepomis macrochirus

Size: 3.88 cm; Weight: 0.96 g

300 mg/l [96 hours]

Acute - LC50 - Fresh water Effect: Mortality

Crustaceans - Scud Order -

Amphipoda

176 mg/l [48 hours]

**Conclusion/Summary [Product]**: Not available.

12.2 Persistence and degradability

Product/ingredient name Result

ethanediol 90 to 100% [10 days] - Readily OECD [ Ready Biodegradability -

DOC Die-Away Test]

**Conclusion/Summary [Product]**: Not available.

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# **SECTION 12: Ecological information**

Product/ingredient name	ct/ingredient name Aquatic half-life		Biodegradability	
ethanediol	-	-	Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Water	-1.38	-	Low
ethanediol	-1.36	-	Low

## 12.4 Mobility in soil

Soil/water partition

coefficient

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Water	No	No	No	No	No	No	No
ethanediol	No	N/A	N/A	No	N/A	N/A	N/A
sodium carbonate	No	No	No	No	No	No	No

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

# **SECTION 13: Disposal considerations**

#### 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 at all times 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** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### **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.

## **Special precautions**

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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 IMO instruments

: Not available.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH**

## Annex XIV - List of substances subject to authorisation

## **Annex XIV**

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### Ozone depleting substances

Not listed.

## **Prior Informed Consent (PIC)**

Not listed.

## **Persistent Organic Pollutants**

Not listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

#### **Seveso Directive**

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# **SECTION 15: Regulatory information**

This product is not controlled under the Seveso Directive.

### **EU regulations**

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Ai

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)** 

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

# 15.2 Chemical safety

assessment

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

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organization

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

RRN = REACH Registration Number

SGG = Segregation Group

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# **SECTION 16: Other information**

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification

Not classified.

## Full text of abbreviated H statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

## **Full text of classifications**

Acute Tox. 4 ACUTE TOXICITY - Category 4
Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Date of issue/ Date of

revision

: 30/10/2025

Date of previous issue : No previous validation

Version : 1

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.