

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Issue date: 05/03/2018, Revision No. 2

EUH208: Contains enzymes. May produce as allergic reaction.

Precautionary Statements

General	P102 Keep out of reach of children.
Prevention	P262 Do not get in eyes, on skin, or on clothing. P264 Wash hands thoroughly after handling.
Response	P305,P351,P338,P337,P313: IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.

2.3 Other hazards	Contains enzymes. May produce an allergic reaction. Avoid breathing product spray. Prolonged contact may cause minor degreasing of the skin. Preparation is biodegradable and not classified as dangerous for the environment.
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3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures

Composition:

Ingredient	Cas No.	EC No.	Conc
Propan-2-ol	67-63-0	-	1-5%

Classification (EC 1272/2008)

STOT SE 3: H336
Eye Irrit. 2: H319
Flam. Liq. 2: H225

Ingredient	Cas No.	EC No.	Conc
Alcohol ethoxylate	68439-45-2	-	1-5%

Classification (EC 1272/2008)

Acute Tox. 4 H302
Eye Irrit. 1: H318

Ingredient	Cas No.	EC No.	Conc
Alkyl polyglucoside	68515-73-1	500-220-1	1-5%

Classification (EC 1272/2008)

Eye Dam. 1 - H318

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Issue date: 05/03/2018, Revision No. 2

Ingredient	Cas No.	EC No.	Conc
Monosodium salt of alkylamine dicarboxylate	94441-92-6	305-318-6	1-5%

Classification (EC 1272/2008)

Eye Irritant. 2: H319

Ingredient	Cas No.	EC No.	Conc
Protease enzyme	9014-01-1	232-752-2	1-5%

Classification (EC 1272/2008)

Eye Irritant. 2: H319

Skin Irritant 2: H315

Resp Sens Cat 1: H334

Ingredient	Cas No.	EC No.	Conc
Propane-1,2-diol	57-55-6	200-337-5	1-5%

Classification (EC 1272/2008)

No classification

4. FIRST AID MEASURES

4.1 Description of first aid measures

In the event of exposure by inhalation:

Remove victim to fresh air. Seek medical attention if symptoms continue.

In the event of splashes or contact with the eyes:

Immediately flush eyes with water for at least 15 minutes and seek medical attention if irritation develops.

In the event of splashes or contact with the skin:

Wash affected area thoroughly with soap and water.

In the event of swallowing:

Rinse mouth and throat with water and give sips of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependent of the concentration and the length of exposure.

Inhalation

May cause shortness of breath and wheezing.

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
REACH Commission Regulation (EU) No 453/2010.

Issue date: 05/03/2018, Revision No. 2

Ingestion

No specific symptoms noted.

Skin contact

In the event of prolonged contact may cause minor irritation.

Eye contact

May cause irritation, pain and redness. The eyes may water profusely.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Suitable methods of extinction

Water, dry chemical or carbon dioxide.

Unsuitable methods of extinction

None known.

5.2 Special hazards arising from the mixture

None known.

5.3 Advice for fire-fighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and procedures

No special protective clothing (See Section 8).

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and materials for containment and cleaning up

May be flushed to drains with plenty of water.

6.4 Reference to other sections

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
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Issue date: 05/03/2018, Revision No. 2

For personal protection, see Section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No specific usage precautions noted.

7.2 Conditions for safe storage, including any incompatibilities

Store at moderate temperatures in dry, well ventilated area. Keep in original container.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Usage Description

See Product Information Sheet & Label for detailed use of this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Hazardous ingredients:

PROPAN-2-OL

Workplace exposure limits:

State	8 hour TWA	15 min STEL
UK	400ppm	500ppm

Respirable dust

8 hour TWA	15 min. STEL
999 mg/m ³	1,250 mg/m ³

PROPANE-1,2-DIOL

Workplace exposure limits:

State	8 hour TWA	15 min. STEL
EU	150ppm	-

Respirable dust

8 hour TWA	15 min. STEL
474 mg/m ³	-

8.2 Exposure controls

Engineering measures

Not relevant.

Personal protection measures, such as personal protective equipment

Eye/face protection

Not required under normal conditions of use. Spray away from the face. Ensure eye wash is to hand.

Hand protection

Hand protection not required under normal conditions of use.

Body protection

Material Safety Data Sheet

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REACH Commission Regulation (EU) No 453/2010.

Issue date: 05/03/2018, Revision No. 2

Not required.

Respiratory protection

Respiratory protection not required. Use in a well ventilated area.

Other protection

None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General information:

Physical state

Appearance	Liquid
Colour	Clear/Pale brown
Odour	Fresh
Solubility	Soluble
pH	6-8
Specific gravity	1.01 g/cm ³
Melting point/freezing point:	> 0°C
Initial boiling point and boiling range:	> 100°C
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid , gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

Important health, safety and environmental information:

9.2 Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Material Safety Data Sheet

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Issue date: 05/03/2018, Revision No. 2

No specific reactivity hazards associated with this product.

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

See sections 10.1, 10.4 & 10.5.

10.4 Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5 Incompatible materials

No incompatible groups noted.

10.6 Hazardous decomposition products

No hazardous decomposition products.

11. TOXICOLOGICAL

11.1 Information on toxicological effects

Skin corrosion/skin irritation:

May cause minor irritation to skin.

Serious damage to eyes/eye irritation:

May cause irritation, pain and redness.

Respiratory or skin sensitization:

May cause shortness of breath. Avoid breathing product spray.

Acute Toxicity data (where available) for components of this product are;

Propan-2-ol	LD50 Oral (rat)	4,700-5,800 mg/Kg
Alcohol ethoxylate	LD50 Oral (rat)	>300 - 2,000 mg/Kg
Protease enzyme	LD50 Oral (rat)	> 5,000 mg/Kg
Amphoteric surfactant	LD-50 Oral (rat)	> 5,000mg/kg
Propan-1,2-diol	LD50 Oral (rat)	>20,000 mg/kg

12. ECOLOGICAL INFORMATION

12.1 Toxicity

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for the product itself.

Eco-toxicity data (where available) for components of this product are;

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
 REACH Commission Regulation (EU) No 453/2010.

Issue date: 05/03/2018, Revision No. 2

Propan-2-ol	LC50 96 hr (fish)	9,640-10,400 mg/L
Alcohol ethoxylate	LC/EC/IC50 (microorganism)	> 100 mg/L
Protease enzyme	LC50 (fish)	> 100 mg/L
Amphoteric surfactant	LC50 96 hr (fish)	100 mg/l
	EC50 48 hr (daphnia)	>1000 mg/l
Propan-1,2-diol	LC 50, 96 hr (fish)	>44, 000 mg/l
	EC 50, 48 hr (daphnia)	>4, 850 mg/l

Mixtures

12.2 Persistence and degradability

The preparation is readily biodegradable. The surfactants in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3 Bio-accumulative potential

The product does not contain any substances expected to bio-accumulate.

12.4 Mobility in soil

This preparation is highly dispersible in water. It is highly likely to distribute predominantly to the aqueous environment.

12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Not known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Waste:

Small amounts of unwanted product may be flushed with water to sewer. Larger volumes should be sent for disposal by an approved waste contractor.

Soiled packaging:

Rinse container and consign empty container to normal waste.

14. TRANSPORT INFORMATION

General Not classified as hazardous for transport.

14.1 UN Number Not applicable/Non-hazardous

14.2 UN proper shipping name Not applicable/Non-hazardous

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Issue date: 05/03/2018, Revision No. 2

14.3 Transport Hazard class(es) Not applicable/Non-hazardous

Land
Inland Waterway Transport
Sea
Air

14.4 Packing group Not applicable/Non-hazardous

14.5 Environmental hazards Not classified as environmentally hazardous

14.6 Special Precautions for user None

15. REGULATORY INFORMATION

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

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010, which amends Regulation (EC) No 1907/2006.

The product is classified under CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Ingredients are listed with classification under CLP Regulation (EC) No 1272/2008 classification, labelling & packaging of substances and mixtures.

15.2 Chemical safety assessment

Not applicable - this product is a mixture.

16. OTHER INFORMATION

Information Sources

Material Safety Data Sheets from multiple raw material manufacturers.

CLP Classification - List of harmonised classification and labelling of hazardous substances.

Comments

This Material Safety Data Sheet has been prepared in accordance with REACH Commission Regulation (EU) No 453/2010, which amends Regulation (EC) No 1907/2006. Raw material (ingredient) hazard classifications are listed in CLP format.

Issue Date: 05/04/18

There has been a change to the classification of the product due to changes in the classification criteria in accordance with CLP.

Material Safety Data Sheet

In accordance with Regulation (EC) No 1272/2008 (CLP) &
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Issue date: 05/03/2018, Revision No. 2

The Hazard Statements listed below relate to the raw materials (ingredients) in the product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this product refer to Section 2.

Hazard Statements in Full

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.

Legal disclaimer:

The information provided is to the best of our knowledge correct and accurate. However, all data instructions and suggestions should be used only for guidance purposes. This company shall not be held liable for any damage resulting from handling or contact with the above product.