



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

Ultra multi enzymatic cleaner-NEW

Product Identification Numbers

IA-4201-0082-7

1.2. Recommended use and restrictions on use

Recommended use

Instrument Cleaner, Hard Surface Cleaner

1.3. Supplier's details

Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100
Telephone: 080-45543000, contact Product EHS team
E Mail: productehs.in@mmm.com
Website: <http://solutions.3mindia.co.in>

1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (single exposure): Category 1.

Acute Aquatic Toxicity: Category 3.

2.2. Label elements

Signal Word

Danger

Symbols

Health Hazard |

Pictograms**HAZARD STATEMENTS:**

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs: cardiovascular system kidney/urinary tract nervous system respiratory system.
H402	Harmful to aquatic life.

PRECAUTIONARY STATEMENTS**Prevention:**

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280E	Wear protective gloves.

Response:

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see Notes to Physician on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Notes to Physician:

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Water	7732-18-5	50 - 80
Glycerol	56-81-5	7 - 13
Sodium Xylenesulphonate	1300-72-7	3 - 7
Disodium tetraborate decahydrate	1303-96-4	1 - 5
Ethylene glycol	107-21-1	1 - 5
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-	94441-92-6	1 - 5

ethylhexyl)-, monosodium salt		
.ALPHA.-AMYLASE	9000-90-2	0.5 - 2
Alkoxylated alcohol	Trade Secret	0.5 - 1.5
Subtilisin	9014-01-1	< 1
4-Formylphenylboronic acid	87199-17-5	< 0.3
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	< 0.1
1-dodecyl-2-pyrrolidone	2687-96-9	< 0.1
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.01

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

This product contains ethylene glycol. Effects of oral ethylene glycol poisoning can be divided into three stages which generally occur over a time-course of hours to days following ingestion: Stage 1 (neurological effects), stage2 (cardiopulmonary effects) and stage 3 (renal effects). If ethylene glycol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

SECTION 5: Fire-fighting measures

5.1. Suitable Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Hydrocarbons.
Carbon monoxide.
Carbon dioxide.
Irritant vapours or gases.
Oxides of sulphur.

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.

5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Use PPE - Exposure Assessment

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylene glycol	107-21-1	ACGIH	TWA(Vapor fraction):25 ppm; STEL(Vapor fraction):50 ppm; STEL(Inhalable aerosol):10 mg/m ³	A4: Not class. as human carcin
Borate compounds, inorganic, inhalable fraction	1303-96-4	ACGIH	TWA(inhalable fraction):2 mg/m ³ ; STEL(inhalable	A4: Not class. as human carcin

Subtilisins, as 100% crystalline active pure enzyme	9014-01-1	ACGIH	fraction):6 mg/m ³ CEIL(as pure crystalline enzyme):0.00006 mg/m ³	
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ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors or acid gases and particulates

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Emulsion
Color	Green
Odor	Odourless
Odour threshold	<i>Not applicable.</i>
pH	6.8
Melting point/Freezing point: NA	<i>Not applicable.</i>
Boiling point/Initial boiling point/Boiling range	<i>Not applicable.</i>

Flash point	<i>Not applicable.</i>
Evaporation rate	<i>Not applicable.</i>
Flammability	Not applicable.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Relative Vapor Density	<i>Not applicable.</i>
Density	1.09 g/cm ³
Relative density	<i>Not applicable.</i>
Water solubility	<i>Not applicable.</i>
Solubility- non-water	<i>Not applicable.</i>
Partition coefficient: n-octanol/water	<i>Not applicable.</i>
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>Not applicable.</i>
Kinematic Viscosity	<i>No data available.</i>
Volatile organic compounds (VOC)	<i>No data available.</i>
Percent volatile	<i>No data available.</i>
VOC less H₂O & exempt solvents	<i>No data available.</i>

Particle Characteristics	<i>Not applicable.</i>
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SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be

relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

Skin contact

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Cardiac effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
Sodium Xylenesulphonate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Sodium Xylenesulphonate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.4 mg/l
Sodium Xylenesulphonate	Ingestion	Rat	LD50 7,200 mg/kg
Ethylene glycol	Ingestion	Human	LD50 1,600 mg/kg
Ethylene glycol	Inhalation-Dust/Mist (4 hours)	Other	LC50 estimated to be 5 - 12.5 mg/l
Ethylene glycol	Dermal	Rabbit	9,530 mg/kg
Disodium tetraborate decahydrate	Dermal	Rabbit	LD50 > 2,000 mg/kg

Disodium tetraborate decahydrate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.03 mg/l
Disodium tetraborate decahydrate	Ingestion	Rat	LD50 5,560 mg/kg
.ALPHA.-AMYLASE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4.96 mg/l
.ALPHA.-AMYLASE	Ingestion	Rat	LD50 > 1,911 mg/kg
.ALPHA.-AMYLASE	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Alkoxylated alcohol	Dermal	Rabbit	LD50 4,600 mg/kg
Alkoxylated alcohol	Ingestion	Rat	LD50 2,500 mg/kg
Subtilisin	Ingestion	Rat	LD50 1,800 mg/kg
4-Formylphenylboronic acid	Dermal		estimated to be > 5,000 mg/kg
4-Formylphenylboronic acid	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
4-Formylphenylboronic acid	Inhalation-Vapor		estimated to be > 50 mg/l
4-Formylphenylboronic acid	Ingestion		estimated to be > 5,000 mg/kg
1-dodecyl-2-pyrrolidone	Dermal		estimated to be > 5,000 mg/kg
1-dodecyl-2-pyrrolidone	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
1-dodecyl-2-pyrrolidone	Ingestion		estimated to be > 5,000 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Rabbit	LD50 87 mg/kg
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.171 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 40 mg/kg
2-Methyl-4-isothiazoline-3-one	Dermal	Rat	LD50 242 mg/kg
2-Methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 120 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Glycerol	Rabbit	No significant irritation
Sodium Xylenesulphonate	Rabbit	Minimal irritation
Ethylene glycol	Rabbit	Minimal irritation
Disodium tetraborate decahydrate	Rabbit	No significant irritation
.ALPHA.-AMYLASE	Rabbit	No significant irritation
Subtilisin	Rabbit	Mild irritant
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Glycerol	Rabbit	No significant irritation
Sodium Xylenesulphonate	Rabbit	Moderate irritant
Ethylene glycol	Rabbit	Mild irritant
Disodium tetraborate decahydrate	Rabbit	Severe irritant
.ALPHA.-AMYLASE	Rabbit	No significant irritation
Subtilisin	Rabbit	Moderate irritant
5-chloro-2-methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive

Sensitization:

Skin Sensitisation

Name	Species	Value
Glycerol	Guinea pig	Not classified
Sodium Xylenesulphonate	Guinea pig	Not classified
Ethylene glycol	Human	Not classified
Disodium tetraborate decahydrate	Guinea pig	Not classified
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Sensitising
2-Methyl-4-isothiazoline-3-one	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
5-chloro-2-methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing
2-Methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing

Respiratory Sensitisation

Name	Species	Value
.ALPHA.-AMYLASE	Human	Sensitising
Subtilisin	Human	Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Sodium Xylenesulphonate	In Vitro	Not mutagenic
Ethylene glycol	In Vitro	Not mutagenic
Ethylene glycol	In vivo	Not mutagenic
Disodium tetraborate decahydrate	In Vitro	Not mutagenic
.ALPHA.-AMYLASE	In Vitro	Not mutagenic
Subtilisin	In Vitro	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
5-chloro-2-methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-Methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Sodium Xylenesulphonate	Dermal	Multiple animal species	Not carcinogenic
Ethylene glycol	Ingestion	Multiple animal species	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
Sodium Xylenesulphonate	Ingestion	Not classified for development	Rabbit	NOAEL 1,000 mg/kg/day	during gestation
Ethylene glycol	Dermal	Not classified for development	Mouse	NOAEL 3,549 mg/kg/day	during organogenesis
Ethylene glycol	Ingestion	Not classified for development	Mouse	LOAEL 750 mg/kg/day	during organogenesis
Ethylene glycol	Inhalation	Not classified for development	Mouse	NOAEL 1,000 mg/kg/day	during organogenesis
Disodium tetraborate decahydrate	Ingestion	Toxic to female reproduction	Rat	NOAEL 17.5 mg boron/kg/day	3 generation
Disodium tetraborate decahydrate	Ingestion	Toxic to male reproduction	Rat	NOAEL 17.5 mg boron/kg/day	3 generation
Disodium tetraborate decahydrate	Ingestion	Toxic to development	similar compounds	NOAEL 9.6 mg boron/kg/day	during gestation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
5-chloro-2-methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sodium Xylenesulphonate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
Ethylene glycol	Ingestion	heart nervous system kidney and/or bladder respiratory system	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Ethylene glycol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Ethylene glycol	Ingestion	liver	Not classified	Human	NOAEL Not available	poisoning and/or abuse
Disodium tetraborate decahydrate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure

Subtilisin	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
5-chloro-2-methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-Methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Glycerol	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Sodium Xylenesulphonate	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	heart	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	skin	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Dermal	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	14 weeks
Sodium Xylenesulphonate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 763 mg/kg/day	90 days
Ethylene glycol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene glycol	Ingestion	vascular system	Not classified	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene glycol	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000	2 years

					mg/kg/day	
Ethylene glycol	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	respiratory system	Not classified	Mouse	NOAEL 12,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	skin	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	endocrine system	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	bone, teeth, nails, and/or hair	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	nervous system	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Ethylene glycol	Ingestion	eyes	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Disodium tetraborate decahydrate	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL not available	
Disodium tetraborate decahydrate	Ingestion	kidney and/or bladder	Not classified	similar compounds	NOAEL not available	
.ALPHA.-AMYLASE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	heart	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	liver	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	eyes	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
.ALPHA.-AMYLASE	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,100 mg/kg/day	13 weeks
Subtilisin	Dermal	skin	Not classified	Rabbit	NOAEL 10 mg/kg/day	28 days
Subtilisin	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 10 mg/kg/day	28 days

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Subtilisin	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Subtilisin	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Subtilisin	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Subtilisin	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Subtilisin	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerol	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Sodium Xylenesulphonate	1300-72-7	Fathead minnow	Experimental	96 hours	LC50	>400 mg/l
Sodium Xylenesulphonate	1300-72-7	Green algae	Experimental	96 hours	EC50	230 mg/l
Sodium Xylenesulphonate	1300-72-7	Water flea	Experimental	48 hours	EC50	>400 mg/l
Sodium Xylenesulphonate	1300-72-7	Green algae	Experimental	96 hours	NOEC	31 mg/l
Sodium Xylenesulphonate	1300-72-7	Activated sludge	Analogous Compound	3 hours	EC10	>=1,000 mg/l
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Green algae	Experimental	72 hours	ErC50	>120 mg/l
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-,	94441-92-6	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l

monosodium salt						
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Water flea	Experimental	48 hours	EC50	>400 mg/l
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Green algae	Experimental	72 hours	NOEC	120 mg/l
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Water flea	Experimental	21 days	NOEC	>=62.5 mg/l
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Activated sludge	Experimental	3 hours	EC50	>640 mg/l
Ethylene glycol	107-21-1	Bacteria	Experimental	16 hours	EC50	10,000 mg/l
Ethylene glycol	107-21-1	Fathead minnow	Experimental	96 hours	LC50	8,050 mg/l
Ethylene glycol	107-21-1	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Ethylene glycol	107-21-1	Water flea	Experimental	48 hours	EC50	>1,100 mg/l
Ethylene glycol	107-21-1	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Ethylene glycol	107-21-1	Water flea	Experimental	21 days	NOEC	100 mg/l
Disodium tetraborate decahydrate	1303-96-4	Green algae	Analogous Compound	72 hours	EC50	466 mg/l
Disodium tetraborate decahydrate	1303-96-4	Water flea	Analogous Compound	48 hours	EC50	1,240 mg/l
Disodium tetraborate decahydrate	1303-96-4	Zebra Fish	Analogous Compound	96 hours	LC50	123 mg/l
Disodium tetraborate decahydrate	1303-96-4	Green algae	Analogous Compound	72 hours	ErC10	309 mg/l
Disodium tetraborate decahydrate	1303-96-4	Water flea	Analogous Compound	21 days	EC10	156 mg/l
Disodium tetraborate decahydrate	1303-96-4	Zebra Fish	Analogous Compound	34 days	NOEC	49 mg/l
Disodium tetraborate decahydrate	1303-96-4	Activated sludge	Analogous Compound	3 hours	EC50	>1,540 mg/l
.ALPHA.-AMYLASE	9000-90-2	Green algae	Experimental	72 hours	ErC50	49 mg/l
.ALPHA.-AMYLASE	9000-90-2	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
.ALPHA.-AMYLASE	9000-90-2	Water flea	Experimental	48 hours	EC50	2,000 mg/l
.ALPHA.-AMYLASE	9000-90-2	Green algae	Experimental	72 hours	NOEC	25 mg/l
Alkoxylated alcohol	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Subtilisin	9014-01-1	Green algae	Experimental	72 hours	ErC50	0.83 mg/l
Subtilisin	9014-01-1	Rainbow trout	Experimental	96 hours	LC50	8.2 mg/l
Subtilisin	9014-01-1	Water flea	Experimental	48 hours	EC50	0.586 mg/l
Subtilisin	9014-01-1	Fathead minnow	Experimental	32 days	NOEC	0.042 mg/l
Subtilisin	9014-01-1	Green algae	Experimental	72 hours	NOEC	0.317 mg/l
Subtilisin	9014-01-1	Water flea	Experimental	21 days	NOEC	0.324 mg/l
Subtilisin	9014-01-1	Redworm	Experimental	14 days	LC50	>568 mg/kg (Dry Weight)
4-Formylphenylboronic acid	87199-17-5	Green algae	Experimental	72 hours	ErC50	10.7 mg/l
4-Formylphenylboronic acid	87199-17-5	Rainbow trout	Experimental	96 hours	LC50	56.7 mg/l

nic acid						
4-Formylphenylboronic acid	87199-17-5	Water flea	Experimental	48 hours	EC50	61.6 mg/l
4-Formylphenylboronic acid	87199-17-5	Green algae	Experimental	72 hours	NOEC	0.75 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Green algae	Experimental	96 hours	EC50	0.086 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Rainbow trout	Experimental	96 hours	LC50	0.59 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Water flea	Experimental	48 hours	EC50	0.139 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Green algae	Experimental	96 hours	EC10	0.046 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Zebra Fish	Experimental	35 days	EC10	0.018 mg/l
1-dodecyl-2-pyrrolidone	2687-96-9	Activated sludge	Experimental	3 hours	EC50	36.4 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	EbC50	0.021 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Green algae	Experimental	96 hours	ErC50	0.018 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Mysid Shrimp	Experimental	96 hours	EC50	0.33 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Rainbow trout	Experimental	96 hours	LC50	0.19 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Sheepshead Minnow	Experimental	96 hours	LC50	0.36 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	48 hours	EC50	0.18 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Diatom	Experimental	72 hours	NOEL	0.01 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Fathead minnow	Experimental	36 days	NOEC	0.02 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Water flea	Experimental	21 days	NOEC	0.172 mg/l
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Bird	Experimental	8 days	LC50	100 ppm diet
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead minnow	Experimental	33 days	NOEC	2.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l

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2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Sodium Xylenesulphonate	1300-72-7	Experimental Biodegradation	28 days	CO2 evolution	84 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Experimental Biodegradation	28 days	CO2 evolution	92 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Experimental Biodegradation	63 days	Dissolv. Organic Carbon Deplet	95 %removal of DOC	OECD 303A - Simulated Aerobic
Ethylene glycol	107-21-1	Experimental Biodegradation	14 days	BOD	90 %BOD/ThOD	OECD 301C - MITI test (I)
Disodium tetraborate decahydrate	1303-96-4	Data not available-insufficient	N/A	N/A	N/A	N/A
.ALPHA.-AMYLASE	9000-90-2	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	99 %removal of DOC	OECD 301E - Modif. OECD Screen
Alkoxylated alcohol	Trade Secret	Data not available-insufficient	N/A	N/A	N/A	N/A
Subtilisin	9014-01-1	Experimental Biodegradation	29 days	CO2 evolution	100 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
4-Formylphenylboronic acid	87199-17-5	Experimental Biodegradation	28 days	CO2 evolution	92 %CO2 evolution/THCO2 evolution	EC C.4.C. CO2 Evolution Test
4-Formylphenylboronic acid	87199-17-5	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	EC C.7 Hydrolysis at pH
1-dodecyl-2-pyrrolidone	2687-96-9	Experimental Aquatic Inherent Biodegrad.	28 days	Dissolv. Organic Carbon Deplet	99.8 %removal of DOC	40CFR 796.3340-Mod. SCAS test
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Aquatic Inherent Biodegrad.	2 days	BOD	97 %BOD/COD	OECD 302B Zahn-Wellens/EVPA
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Biodegradation	28 days	CO2 evolution	62 %CO2 evolution/THCO2 evolution	similar to OECD 301B
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Hydrolysis		Hydrolytic half-life basic pH	13 days (t 1/2)	OECD 111 Hydrolysis func of pH
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Glycerol	56-81-5	Experimental		Log Kow	-1.75	similar to OECD 107

		Bioconcentration				
Sodium Xylenesulphonate	1300-72-7	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	=<2.3	OECD305-Bioconcentration
Sodium Xylenesulphonate	1300-72-7	Experimental Bioconcentration		Log Kow	-3.12	EC A.8 Partition Coefficient
.beta.-Alanine, N-(2-carboxyethyl)-N-(2-ethylhexyl)-, monosodium salt	94441-92-6	Experimental Bioconcentration		Log Kow	-1.5	
Ethylene glycol	107-21-1	Experimental Bioconcentration		Log Kow	-1.36	
Disodium tetraborate decahydrate	1303-96-4	Experimental Bioconcentration		Log Kow	-1.53	EC A.8 Partition Coefficient
.ALPHA.-AMYLASE	9000-90-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Alkoxylated alcohol	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Subtilisin	9014-01-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
4-Formylphenylbornoic acid	87199-17-5	Experimental Bioconcentration		Log Kow	1.36	EC A.8 Partition Coefficient
1-dodecyl-2-pyrrolidone	2687-96-9	Modeled Bioconcentration		Bioaccumulation factor	9.8	Catalogic™
1-dodecyl-2-pyrrolidone	2687-96-9	Experimental Bioconcentration		Log Kow	4.03	EC A.8 Partition Coefficient
5-chloro-2-methyl-4-isothiazoline-3-one	26172-55-4	Experimental Bioconcentration		Log Kow	0.45	
2-Methyl-4-isothiazoline-3-one	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	5.75	
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Bioconcentration		Log Kow	-0.486	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other Adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable

Proper Shipping Name Not applicable

Hazard Classs/Division Not applicable

Subsidiary Risk Not applicable

Packing Group: Not applicable

Marine Transport (IMDG)

UN No Not applicable

Proper Shipping Name Not applicable

Hazard Classs/Division Not applicable

Subsidiary Risk Not applicable

Packing Group: Not applicable

Environmental Hazards: Not applicable

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information.

Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989

The Bio Medical Waste (Management & Handling) Rules, 1998

Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

Ethylene glycol

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

The Product is classified as Non- Hazardous.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:

Section 02: GHS Precautionary - Notes to Physician information was added.

Label: GHS Classification information was modified.

Label: GHS Precautionary - Disposal information was deleted.

Label: GHS Precautionary - Prevention information was modified.

Label: GHS Precautionary - Response information was modified.

Label: GHS Precautionary - Storage information was deleted.

Label: GHS Target Organ Hazard Statement information was modified.

Label: Signal Word information was modified.

Label: Symbol information was modified.

Section 2: Ingredient table information was modified.
Section 04: First Aid - Symptoms and Effects (GHS) information was added.
Section 4: First aid for eye contact information information was modified.
Section 04: Information on toxicological effects information was deleted.
Section 5: Fire - Advice for fire fighters information information was modified.
Section 5: Hazardous combustion products table information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 7: Precautions safe handling information information was modified.
Section 8: Eye protection information information was added.
Section 8: Eye/face protection information information was deleted.
Section 8: Occupational exposure limit table information was modified.
Section 08: Personal Protection - Apron Statement information was added.
Section 8: Personal Protection - Eye information information was deleted.
Section 8: Personal Protection - Skin/body information information was deleted.
Section 8: Skin protection - protective clothing information information was deleted.
Section 8: Skin protection - recommended gloves information information was modified.
Section 8: Skin protection - recommended gloves text information was added.
Section 8: Skin protection - recommended gloves text information was deleted.
Section 09: Color information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 09: Kinematic Viscosity information information was added.
Section 09: Particle Characteristics N/A information was added.
Section 09: Percent Volatile information was added.
Section 09: Vapor Density Value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Section 09: VOC Less H2O & Exempt Solvents information was added.
Section 09: Volatile Organic Compounds information was added.
Section 10: Materials to avoid physical property information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Health Effects - Skin information information was modified.
Photosensitisation Table information was modified.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Respiratory Sensitization Table information was added.
Section 11: Respiratory Sensitization text information was deleted.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12: Biocumulative potential information information was modified.
Section 13: Standard Phrase Category Waste GHS information was modified.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into India, you are responsible to

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