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4.2 Most important symptoms and effects, both acute and delayed

- : May cause mild eye irritation. Symptoms may include stinging and tearing. May cause mild skin irritation. Symptoms may include mild redness and swelling. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- : Burning may produce irritating, toxic and obnoxious fumes. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.

5.3 Advice for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8. Restrict access to area until completion of clean-up.

6.2 Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

6.3 Methods and material for containment and cleaning up

- : Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

6.4 Reference to other sections

- : Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- : Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapours or mists. Avoid contact with eyes, skin and clothing. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling.

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7.2 Conditions for safe storage, including any incompatibilities

- : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

7.3 Specific end use(s) : Flame retardant

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Non hazardous, and/or, other components below reportable levels			
	N/Av	European Union (OEL)	N/Av

Biological Exposure Indices:

No biological exposure limits noted for the ingredient(s).

8.2 Exposure controls

Ventilation and engineering measures

- : Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Advice should be sought from respiratory protection specialists.

Skin protection : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye / face protection : Wear safety glasses with side shields (or goggles). See also EN 166.

Other protective equipment

- : Wear sufficient clothing to prevent skin contact. Depending on conditions of use, an impervious apron should be worn. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

8.3 Environmental exposure controls

- : Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state** : Straw coloured liquid.
- Colour** : Clear, colorless.
- Odour** : Ammonia odor.
- Odour threshold** : Not available.

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pH : 6.2
Flash point : Not applicable.
Flashpoint (Method) : Not applicable.
Lower flammable limit (% by vol.)
: Not applicable.
Upper flammable limit (% by vol.)
: Not applicable.
Auto-ignition temperature
: Not applicable.
Decomposition temperature
: 100°C
Oxidizing properties : Not applicable
Explosive properties : Not explosive
Initial boiling point and boiling range
: 100°C
Melting/Freezing point : 0°C
Relative density : 1.12
Solubility in water : Soluble
Other solubility(ies) : Not available.
Vapour pressure : Not available.
Vapour density : Not available.
Partition coefficient: n-octanol/water
: Not available.
Viscosity : 0.583
Evaporation rate (BuAe = 1)
: Not available.
Particle characteristics : Not available

9.2 Other Information

Volatiles (% by weight) : 74 %
Volatile organic Compounds (VOC's)
: Not available.
Other physical/chemical comments
: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : Not normally reactive.
10.2 Chemical stability : Material is stable under normal conditions.
10.3 Possibility of hazardous reactions
: Hazardous polymerization does not occur.
10.4 Conditions to avoid : Avoid excessive heat, sparks and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid exposure to light.
10.5 Incompatible materials
: Strong acids and oxidizing agents; Strong bases
10.6 Hazardous decomposition products
: In the event of fire the following can be released: Ammonia

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:

- Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.
- Skin corrosion/Irritation** : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
- Serious eye damage/irritation** : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.
- Respiratory or skin sensitisation** : Not expected to be a skin or respiratory sensitizer.
- Germ cell mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive toxicity** : Not expected to cause reproductive effects.
- STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.
- STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Skin contact, eye contact, inhalation.
- Effects of acute exposure** : Inhalation :Mild respiratory irritant
- Eye contact :Direct eye contact may cause slight or mild, transient irritation.
- Skin contact:May cause mild skin irritation on prolonged contact.
- Ingestion: Not an expected route of entry under normal conditions of use.
- Potential Chronic Health Effects** : Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

11.1.1 Acute Toxicity

- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Chemical name	LC₅₀(4hr) inh, rat	LD₅₀	
		(Oral, rat)	(Rabbit, dermal)
Non hazardous, and/or, other components below reportable levels	N/Av	2000 mg/kg	N/Av

11.2 Information on other Hazards

- : None known.

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity** : Avoid release to the environment. See the following tables for individual ingredient ecotoxicity data.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Non hazardous, and/or, other components below reportable levels	N/Av	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Non hazardous, and/or, other components below reportable levels	N/Av	N/Av	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Non hazardous, and/or, other components below reportable levels	N/Av	N/Av	N/Av	None.

12.2 Persistence and degradability

: No information available.

12.3 Bioaccumulation potential

: No information available.

Components

Partition coefficient n-octanol/water (log Kow)

Bioconcentration factor (BCF)

Non hazardous, and/or, other components below reportable levels (CAS N/Av)

-5.1 at 25 °C

N/Av

12.4 Mobility in soil

: No information available.

12.5 Results of PBT and vPvB assessment

: This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

:

12.7 Other Adverse Environmental effects

: No information available.

12.8 Additional information :

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Handling for Disposal : Handle waste according to recommendations in Section 7.

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Methods of Disposal : Dispose of in accordance with the European Directives on waste and hazardous waste. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

SECTION 14. TRANSPORTATION INFORMATION

<i>Regulatory Information</i>	14.1 UN Number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing Group	<i>Label</i>
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
ADR/RID	None.	not regulated	not regulated	none	
ADR/RID Additional information	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				

14.5 Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

14.6 Special precautions for user

: None known or reported by the manufacturer.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15. REGULATORY INFORMATION

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

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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: None of the components are specifically listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended :None of the components are specifically listed.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: None of the components are specifically listed.

Directive 94/33/EC on the protection of young people at work: None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: None of the components are specifically listed.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended [including Regulation (EU) 2015/830].

German legislation on water endangering substances VwVwS. Water hazard class (Germany) (0self classified)

15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

SECTION 16. OTHER INFORMATION

Legend

: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstract Services
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
EC: European Community
EC50: Effective Concentration 50%
ECHA: European Chemicals Agency
EEC: European Economic Community
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
NOEC: No observable effect concentration
OECD: Organisation for Economic Co-operation and Development
OEL: National occupational exposure limits
PEL: Permissible exposure limit
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
RTECS: Registry of Toxic Effects of Chemical Substances
TWA: Time Weighted Average

Information Source

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Revision Information

: 11. TOXICOLOGICAL INFORMATION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (M)SDS sections updated

Regulation and Procedure :

not regulated Expert judgement

H-phrases (full-text)

None.

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Product Stewardship Department Rosco Laboratories, Inc. 52 Harbor View Avenue Stamford, CT 06902, USA Telephone: +1 (203) 708-8900</p>	
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