SAFETY DATA SHEET



Category 1

Revision date: 01-Jun-2021

Respiratory sensitization

Label elements

Revision Number 1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier			
Product Name	ENZYFOAM		
Product Code(s)	00000054047		
Other means of identification			
Recommended use of the chemical	and restrictions on use		
Recommended use	Detergent		
Uses advised against	No information available.		
Details of the supplier of the safety	data sheet		
<u>Supplier</u> Ixom Operations Pty Ltd (Incorporated NZBN: 9429041465226 Address: 166 Mt Maunganui South New Zealand			
Telephone Number: +64 9 368 2700 Facimile: +64 9 368 2710			
For further information, please cont	act		
Contact Point	Product Safety Department		
Emorgonov tolonhono numbor			
Emergency telephone number			
Emergency Telephone	0 800 734 607 (ALL HOURS)		
Please ensure you refer to the limitations of this S	Safety Data Sheet as set out in the "Other Information" section at the e	end of this Data Sheet.	
2. HAZARDS IDENTIFICAT	ION		
Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.			
Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.			
GHS Classification			
SIGNAL WORD Danger			
Cleaning Products (Subsidiary Hazard) Group Standard 2020 Approval Number: HSR002530			
Skin corrosion/irritation		Category 2	
Serious eye damage/eye irritation		Category 1	



Hazard statements H315 - Causes skin irritation H318 - Causes serious eye damage H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements - Prevention

Avoid breathing dust / fume / gas / mist / vapours / spray Wear protective gloves / protective clothing / eye protection / face protection In case of inadequate ventilation wear respiratory protection **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician **Precautionary Statements - Storage** No storage statements **Precautionary Statements - Disposal** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Other hazards which do not result in classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	CAS No.	Weight-%
D-Glucopyranose, oligomeric, C10-16-alkyl	110615-47-9	5-<30
glycosides		
Propylene glycol monobutyl ether	5131-66-8	1-<10
Amines, coco alkyldimethyl, N-oxides	61788-90-7	1-<10
D-Glucose, decyl octyl ethers, oligomeric	68515-73-1	1-<10
Subtilisin	9014-01-1	0.1-1
Diethanolamine	111-42-2	0.1-1
Other component(s)	-	to 100

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Emergency telephone number	Poisons Information Center, New Zealand: 0800 764 766 Poisons Information Center, Australia: 13 11 26	
Inhalation	Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped,	

	give artificial respiration. Get medical attention immediately.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids Consult a physician.		
Skin contact	Wash with soap and water. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water. Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.		
Most important symptoms and effe	ects, both acute and delayed		
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically. May cause sensitization in susceptible persons. Can cause corneal burns.		
5. FIRE FIGHTING MEASU	RES		
Suitable Extinguishing Media			
Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the c	hemical		
Specific hazards arising from the chemical	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
Special protective actions for fire-f	ighters		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
6. ACCIDENTAL RELEASE	EMEASURES		
Personal precautions, protective e	quipment and emergency procedures		
Personal precautions	Avoid contact with skin, eyes and inhalation of vapors. Do not touch or walk through spilled material. Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment as required. Wash thoroughly after handling.		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containm	ent and cleaning up		
Methods and matcharlor containing			

Methods for cleaning up	Take up with sand or other non-combustible absorbent material and place into conta for later disposal. After cleaning, flush away traces with water.		
Precautions to prevent secondary hazards			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Avoid breathing vapors or mists. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation. Use personal protection equipment. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Keep at temperatures between 4 °C and 25 °C. Keep/store only in original container. Keep container closed when not in use.
Incompatible materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Diethanolamine: 8hr WES-TWA = 3 ppm, 13 mg/m³, skin Subtilisins (Proteolytic enzymes, as 100% pure crystalline enzyme): Ceiling = 0.00006 mg/m³, rsen, skin

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded during any part of the working day.

Skin' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

(rsen) - Respiratory sensitiser.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Appropriate engineering controls

Engineering controls

Eyewash stations. Apply technical measures to comply with the occupational exposure

limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.



9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties			
Physical state	Liquid		
Appearance	No information available.		
Color	Light brown		
Odor	Characteristic		
Odor threshold	No information available.		
Property_	Values	Remarks • Method	
pH	7.3-8.3	None known	
Melting point / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air		None known	
Upper flammability or explosive	No data available		
limits			
Lower flammability or explosive	No data available		
limits			
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Relative density	No data available	None known	

Water solubility	Misc
Solubility(ies)	No d
Partition coefficient	No d
Autoignition temperature	No d
Decomposition temperature	No d
Kinematic viscosity	No d
Dynamic viscosity	No d

Miscible in water No data available None known None known None known None known None known None known

Other information

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	
Reactivity	No information available.
Chemical stability	
Stability	Stable under normal conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Direct sunlight.
Incompatible materials	
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	<u>1</u>

Hazardous decomposition products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:	
Inhalation	May cause irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Eye contact	Causes serious eye damage.	
Skin contact	Causes skin irritation.	
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.	

Symptoms

Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing.

Acute toxicity

Numerical measures of toxicity No information available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol monobutyl ether	= 1900 mg/kg (Rat) = 5660 µL/kg (Rat)	= 3100 mg/kg (Rabbit)	-
Subtilisin	= 3700 mg/kg (Rat)	-	-
Diethanolamine	= 780 mg/kg (Rat) = 620 µL/kg (Rat)	= 11.9 mL/kg (Rabbit)= 7640 µL/kg (Rabbit)	-

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause sensitization by inhalation.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.

Chemical name	New Zealand	IARC	
Diethanolamine - 111-42-2		Group 2B	
IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans			
Reproductive toxicity	Not classified.		

STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Keep out of waterways.

Terrestrial ecotoxicity There is no data for this product.

Chemical name	Algae/aquatic plants	Fish	Crustacea
D-Glucose, decyl octyl ethers,	-	LC50: =170mg/L (96h, Danio rerio)	_

		·····	
oligomeric			
Diethanolamine	EC50: =7.8mg/L (72h, Desmodesmus subspicatus) EC50: 2.1 - 2.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 4460 - 4980mg/L (96h, Pimephales promelas) LC50: 1200 - 1580mg/L (96h, Pimephales promelas) LC50: 600 - 1000mg/L (96h, Lepomis macrochirus)	EC50: =55mg/L (48h, Daphnia magna)
Persistence and degradability			
Persistence and degradability	No information available.		
Bioaccumulative potential			
Bioaccumulation	No information available.		
Mobility			
Mobility in soil	No information available.		
Component Information			
	al name olamine	Partition of -2.	
Other adverse effects Other adverse effects	No information available.		
13. DISPOSAL CONSID	ERATIONS		
Waste treatment methods			
Waste from residues/unused products	Substances (Disposal) No and Revocations) Notice 2 characteristics or compos	Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020. Treat the chemical using a method that changes the characteristics or composition of the chemical so that the chemical is no longer a hazardous chemical; or export the chemical from New Zealand as waste.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.		
14. TRANSPORT INFO	RMATION		
ROAD AND RAIL TRANSPORT	_ Not classified as a Dange Land; NON-DANGEROUS	rous Good under NZS 5433 Trans S GOODS.	sport of Dangerous Goods on
ΙΑΤΑ	Association (IATA) Dange	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.	
IMDG_		us Goods by the criteria of the Int	

15. REGULATORY INFORMATION

Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

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

New Zealand

National regulations See section 8 for national exposure control parameters

International Inventories	Contact supplier for inventory compliance status.
TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

Legend:

NZIOC - New Zealand Inventory of Chemicals
 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 - Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

16. OTHER INFORMATION

Supplier Safety Data Sheet 04/2015

Prepared By	This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).
Issuing Date:	01-Jun-2021
Reason(s) For Issue:	First Issue Primary SDS

Revision Note:

The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet			
Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet