CHEMISTRY HOUSE PTY LTD
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SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

GHS IDENTIFIER	**SWASS Chlorine Stable Surfactant**
PRODUCT (MATERIAL) NAME	
OTHER NAMES	
PROPER SHIPPING NAME	
RECOMMENDED USE	Surfactant
SUPPLIER NAME/ADDRESS	CHEMISTRY HOUSE PTY LTD 9 Production Avenue Molendinar 4214 Queensland
TELEPHONE NO.	+61-(0) 7-5594-0344 Facsimile: +61-(0)7-5594-0236
EMERGENCY PHONE NUMBER	000 Hours: 0800-1700 Monday-Friday

SECTION 2 HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION OF MIXTURE

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS (WHEN TRANSPORTED BY IBCs – see below)**

Environmentally Hazardous Substances meeting the description of UN3077 or UN3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road or Rail when transported by road or rail in packagings, IBCs and any other receptacles not exceeding 500kg(L).

This material is hazardous according to Safe Work Australia; **HAZARDOUS SUBSTANCE.**

SUSMP SCHEDULE
No poison schedule number allocated

HAZARD CATEGORY
Skin Corrosion/Irritation- Category 2
Serious Eye Damage/Eye Irritation- Category 1
Short-Term (Acute) Aquatic Hazard- Category 1
Long-Term (Chronic) Aquatic Hazard- Category 2

PICTOGRAMS

SIGNAL WORD **DANGER**

HAZARD STATEMENTS
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

GENERAL Not available

PREVENTION
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

RESPONSE
P391 Collect spillage.
P362 Take off contaminated clothing and wash before reuse.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P305 + P351 + P338 + P310 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.

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	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
STORAGE	Not available
DISPOSAL	P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.
OTHER HAZARDS	AUH032 Contact with acids liberates very toxic gas.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Chemical identity of ingredients	CAS Number(s) for ingredients	Proportion of ingredients	GHS Hazard Phrases
Dodecyldimethylamine Oxide	[1643-20-5]	>= 10 - < 30%	Not available
N,N-dimethyltetradecylamine N-oxide	[3332-27-2]	>= 10 - < 30%	Not available
Hexadecyldimethylamine N-oxide	[7128-91-8]	>= 1 - < 3%	Not available
Dodecyldimethylamine	[112-18-5]	< 1%	Not available

If the sum of ingredients is less than 100%, the material consists of further ingredients determined not to be hazardous or below their cut-off limits..

SECTION 4 FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone Australia 131126: New Zealand 03 4747000 or a doctor.

General Advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
Inhalation:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin Contact:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
Eye Contact:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion:	Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Indication of immediate medical attention and special treatment needed:	None known. Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

FLAMMABILITY CONDITIONS	No hazardous combustion products are known
SUITABLE EXTINGUISHING MEDIA	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	Do not allow run-off from fire fighting to enter drains or water courses.
SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS	Wear self-contained breathing apparatus for firefighting if necessary. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Additional information	Not available
HAZCHEM OR EMERGENCY ACTION CODE:	*3Z

SECTION 6 ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES	If the product contaminates rivers and lakes or drains inform respective authorities.
GENERAL RESPONSE	
PERSONAL PRECAUTIONS /PROTECTIVE EQUIPMENT	Use personal protective equipment. Refer to protective measures listed in sections 7 and 8. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

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/METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION	Normal measures for preventive fire protection.
PRECAUTIONS FOR SAFE HANDLING	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
HYGIENE MEASURES	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. For incompatible materials please refer to Section 10 of this SDS. DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE SUPPLIER.
CONTAINER	Packaging must comply with requirements of Hazardous Substances (Packaging) Regulations 2001. Store in original packaging as approved by manufacturer.
PRECAUTIONS FOR ACTIVATION	Stable under normal conditions.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS: BIOLOGICAL LIMIT VALUES	Contains no substances with occupational exposure limit values.
APPROPRIATE ENGINEERING CONTROLS:	Not available
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE):	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. RESPIRATORY PROTECTION. No personal respiratory protective equipment normally required. Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices. HAND PROTECTION. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Refer to Australian/New Zealand Standard AS/NZS 2161.1: 2000 for guidance on selection and use of protective gloves. EYE PROTECTION. Eye wash bottle with pure water. Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eyeware. SKIN AND BODY PROTECTION. Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance:	Light yellow, Clear
Flammability:	Data not available on the product itself.
Melting Point:	Data not available
Boiling Point:	100 °C
Flash Point:	Data not available
Decomposition Temperature:	Data not available
Vapour Pressure @ 21°C:	Data not available
Volatiles:	Data not available

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Viscosity, Dynamic:	25 mPa.s (20 °C)
Relative Density:	0.97 (20 °C)
Flammability Limits:	Data not available
Autoiginition temp:	Not determined
pH as received:	7 - 8
Specific Gravity:	Data not available
Solubility in water:	Soluble in cold water
Solubility in other solvent:	Solvent: Methanol Description: Partly soluble
Decomposition temperature:	Data not available

SECTION 10 STABILITY AND REACTIVITY

Chemical Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under normal conditions.
Conditions to avoid	None known.
Possibility of hazardous reactions:	No hazards to be specially mentioned.
Incompatible materials:	None known.
Hazardous decomposition products:	No hazardous decomposition products are known.

SECTION 11 TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

SYMPTOMS OF EXPOSURE

Ingestion:	Data not available
Eye Contact:	Data not available
Skin Contact:	Data not available
Inhalation:	Data not available

ACUTE TOXICITY

For the Product: Oral LD50: >2,000 mg/kg
Method: Calculation method

Acute toxicity: Product	Oral LD_{50}: >2,000 mg/kg Inhalation (dust/mist) LC_{50}: >5mg/m^3/4 hrs
Skin corrosion/irritation:	Data not available
Serious eye damage/irritation:	Data not available
Respiratory or skin irritation /sensitisation:	Data not available
Germ cell mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity:	No teratogenic effects.
Specific Target Organ Toxicity (STOT) – Single Exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Data not available
Specific Target Organ Toxicity – Repeated Exposure	Data not available
Aspiration hazard:	Data not available

Acute toxicity: Dodecyldimethylamine Oxide	Data not available
Skin corrosion/irritation:	Dermal LD_{50} (Rat, male and female) : >2,000mg/Kg

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	OECD Test Guideline 404 (Rabbit): Irritant Severe skin irritation.
Serious eye damage/irritation:	OECD Test Guideline 405 (Rabbit): Corrosive Irreversible effects on the eye. Severe eye irritation.
Respiratory or skin irritation /sensitisation:	Does not cause skin sensitisation.
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Data not available
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – Single Exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Data not available
Specific Target Organ Toxicity – Repeated Dose Toxicity	Subchronic Toxicity (Rabbit- Skin Contact) NOAEL: 2.5 mg/kg/d Exposure time: 2,184 h Subchronic Toxicity (Mouse, male and female- Skin Contact) NOAEL: 1% Exposure time: 2,184 h Number of exposures: 5d Subchronic Toxicity (Rat, male and female- Ingestion) NOAEL: 88 mg/kg/d Exposure time: 672 h Number of exposures: 7d Subchronic Toxicity (Rat, male and female- Ingestion) NOAEL: 80 mg/kg/d Exposure time: 2,160 h Subchronic Toxicity (Rabbit- Skin contact) NOAEL: 1.5 mg/kg/d Exposure time: 2,184 h
Aspiration hazard:	Data not available

Acute toxicity: N, N-dimethyltetradecylamine N-oxide	Data not available
Skin corrosion/irritation:	OECD Test Guideline 404 (Rabbit): Irritant Irritating to skin.
Serious eye damage/irritation:	OECD Test Guideline 405 (Rabbit): Severe eye irritation, Corrosive Irreversible effects on the eye. Corrosive.
Respiratory or skin irritation /sensitisation:	Does not cause skin sensitisation.
Germ cell mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Data not available
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Data not available
Specific Target Organ Toxicity	Subchronic Toxicity (Rat, male and female-

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– Repeated Dose Toxicity	Ingestion) NOAEL: 88 mg/kg/d Exposure time: 2,160 h Number of exposures: 7d Subchronic Toxicity (Mouse, male and female- Skin Contact) NOAEL: 1% Exposure time: 672 h Number of exposures: 5d Subchronic Toxicity (Mouse, male and female- Skin Contact) LOEL: 0.27% Exposure time: 2,184 h Number of exposures: 5d Subchronic Toxicity (Rat, male and female- Ingestion) NOAEL: 40 mg/kg/d Exposure time: 2,184 h
Aspiration hazard:	Data not available

Acute toxicity: Hexadecyldimethylamine N-oxide:	Data not available
Skin corrosion/irritation:	Skin irritation.
Serious eye damage/irritation:	Irreversible effects on the eye.
Respiratory or skin irritation /sensitisation:	Data not available
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Data not available
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Data not available
Specific Target Organ Toxicity – Repeated Dose Toxicity	Data not available
Aspiration hazard:	Data not available

Acute toxicity: Dodecyldimethylamine:	Data not available
Skin corrosion/irritation:	OECD Test Guideline 404 (Rabbit): Corrosive Corrosive.
Serious eye damage/irritation:	Data not available
Respiratory or skin irritation /sensitisation:	Classification not possible.
Germ cell mutagenicity:	Data not available
Carcinogenicity:	Data not available
Reproductive toxicity:	Data not available
Specific Target Organ Toxicity (STOT) – single exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Exposure:	Data not available
Specific Target Organ Toxicity (STOT) – Repeated Dose	Subchronic Toxicity (Rat - Ingestion) NOAEL: 12.5 mg/kg/d

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	Toxicity:	Exposure time: 672 h SubacuteToxicity (Rat - Skin Contact) LOEL: 12.5 mg/kg/d Subchronic Toxicity (Rat - Ingestion) NOAEL: 3.25 mg/kg/d Exposure time: 672 h
	Aspiration hazard:	Data not available

Additional information
Aggravated medical conditions caused by exposure

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY

Aquatic Toxicity — Components:
Hexadecyldimethylamine N-oxide: Very toxic to aquatic life. (Acute aquatic toxicity)
Dodecyldimethylamine: Very toxic to aquatic life with long lasting effects. (Chronic aquatic toxicity)

Acute toxicity: Components- Dodecyldimethylamine Oxide:
M-Factor (Acute aquatic toxicity): 1

Fish – Fresh water	LC50/96h (Brachydanio rerio (zebrafish)): 0.2 - 10.667 mg/l LC50/96h (Pimephales promelas (fathead minnow)): 2.67 - 3.46 mg/l Static test LC50/96h (Oncorhynchus mykiss (rainbow trout)): 12.6 mg/l OECD Test Guideline 203- Static test LC50/96h (Brachydanio rerio (zebrafish)): 3 - 30 mg/l OECD Test Guideline 203- Static test LC50/96h (Lepomis macrochirus (Bluegill sunfish)): > 2.4 - < 2.8 mg/l OPPTS 850.1075- Static test
Aquatic invertebrate – Fresh water	EC50/48h (Daphnia magna (Water flea)): 0.167 - 3.434 mg/l EC50/48h (Daphnia magna (Water flea)): 2.9 mg/l OECD Test Guideline 202- Static test LC50/96h (Daphnia magna (Water flea)): 1.01 mg/l Static test EC50/48h (Daphnia magna (Water flea)): 4.6 mg/l OECD Test Guideline 202 EC50/48h (Daphnia magna (Water flea)): 3.1 mg/l OECD Test Guideline 202- Static test EC50/48h (Marine water): 10 mg/l OPPTS 850.1010- Static test
Algae/aquatic plants –	Data not available
Microorganisms –	Data not available

Components- N, N-dimethyltetradecylamine N-oxide
M-Factor (Acute aquatic toxicity): Data not available

Fish – Fresh water	LC50/96h (Brachydanio rerio (zebrafish)): 2.4 mg/l OECD Test Guideline 203- Semi-static test
Aquatic invertebrate – Fresh water	LC50/48h (Daphnia magna (Water flea)): 2.64 mg/l OECD Test Guideline 202- Static test
Algae/aquatic plants –	Data not available

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Microorganisms –	Data not available

Components- Dodecyldimethylamine
M-Factor (Acute aquatic toxicity): 10

Fish – Fresh water	LC50/96h (Oncorhynchus mykiss (rainbow trout)): 0.16 mg/l OECD Test Guideline 203- Semi-static test GLP: Yes LC50/96h (Brachydanio rerio (zebrafish)): 0.24 mg/l OECD Test Guideline 203- Static test GLP: Yes
Aquatic invertebrate – Fresh water	EC50/48h (Daphnia magna (Water flea)): 0.05 mg/ OECD Test Guideline 202- Static test GLP: Yes EC50/48h (Daphnia magna (Water flea)): 0.09 mg/l OECD Test Guideline 202- Static test GLP: Yes
Algae/aquatic plants – Fresh water	Data not available
Microorganisms –	Data not available

Chronic toxicity:

Components: Dodecyldimethylamine oxide:
M-Factor (Chronic aquatic toxicity): Data not available

Fish –	NOEC/302d (Pimephales promelas (fathead minnow)-Marine water): 0.1033 mg/l NOEC/15d (Pimephales promelas (fathead minnow)-Fresh water): 0.495 mg/l Fish Life Cycle Toxicity - flow-through test
Aquatic invertebrate – Fresh water	NOEC/21d (Daphnia (water flea)): 0.0934 mg/l NOEC/21d (Daphnia magna (Water flea)): 0.7 mg/l OECD Test Guideline 211 - flow-through test
Algae –	Data not available
Microorganisms –	EC50/16h (Pseudomonas putida): 189 mg/l OECD Test Guideline 209 EC50/16h (Pseudomonas putida): ca. 57 mg/l DIN 38412 - Static test
Soil dwelling organisms –	Data not available

Components: N,N-dimethyltetradecylamine N-oxide
M-Factor (Chronic aquatic toxicity): Data not available

Fish – Fresh water	NOEC/302d (Pimephales promelas (fathead minnow)): 0.42 mg/l Fish Life Cycle Toxicity - flow-through test
Aquatic invertebrate – Fresh water	NOEC/21d (Daphnia magna (Water flea)): 0.7 mg OECD Test Guideline 211- flow-through test
Algae –	Data not available
Microorganisms –	Data not available
Soil dwelling organisms –	Data not available

Components: Dodecyldimethylamine:
M-Factor (Chronic aquatic toxicity): Data not available

Fish –	GLP: yes
Aquatic invertebrate –	NOEC/21d (Daphnia magna (Water flea)): 0.013 mg/l

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	OECD Test Guideline 211- Semi-static test
Algae –	Data not available
Microorganisms –	EC50/3h: 14 - 14.2 mg/l OECD Test Guideline 209
Soil dwelling organisms –	NOEC/432h (Eisenia fetida (earthworms)): 200 mg/kg OECD Test Guideline 222 GLP: yes

PERSISTENCE AND DEGRADABILITY

Components: Dodecyldimethylamine Oxide: Readily biodegradable. Inherently biodegradable.

Inoculum: activated sludge	Result: Readily biodegradable. Biodegradation: 69.2 % Exposure time: 33 d Method: Simulation Test - Aerobic Sewage Treatment. A: Activated Sludge Units
Inoculum: Fresh water	Result: Readily biodegradable. Biodegradation: 69.2 % Exposure time: 33 d
N/A	Result: Readily biodegradable. Exposure time: 28 d
Inoculum: activated sludge	Concentration: 22 mg/l Result: Readily biodegradable. Biodegradation: 90 % Exposure time: 28 d Method: OECD Test Guideline 301B
	Concentration: 20 mg/l Result: Readily biodegradable. Biodegradation: 86.83 - 88.93 % Exposure time: 28 d Method: OECD Test Guideline 301B
	Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 28 d Method: DIN 38412
	Result: Readily biodegradable. Biodegradation: 80 % Exposure time: 28 d Method: OECD Test Guideline 301B
	Result: Inherently biodegradable. Biodegradation: > 80 % Exposure time: 28 d Method: OECD Test Guideline 302B
	Result: Inherently biodegradable.
	Concentration: 2 mg/l Result: Readily biodegradable. Biodegradation: 93 % Exposure time: 28 d Method: OECD Test Guideline 301D
	Concentration: 37 mg/l Result: Readily biodegradable. Biodegradation: 85.53 - 91.22 % Exposure time: 28 d Method: OECD Test Guideline 301B
	Concentration: 98.6

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	Biodegradation: 69.9 - 75 % Exposure time: 21 d Method: Simulation Test - Aerobic Sewage Treatment. A: Activated Sludge Units
	Concentration: 1 - 2 Biodegradation: 43 - 63 % Exposure time: 14 d Method: OECD Guideline, other
	Biodegradation: 74.9 - 76 % Exposure time: 62 d
	Biodegradation: 43 - 60 % Exposure time: 3.29167 d

Components: N,N-dimethyltetradecylamine N-oxide: : Readily biodegradable.

Inoculum: activated sludge	Concentration: 110 - 384 Biodegradation: 69.9 - 92.6 % Exposure time: 21 d Method: Simulation Test - Aerobic Sewage Treatment. A: Activated Sludge Units
	Result: Readily biodegradable. Biodegradation: 67.5 % Exposure time: 28 d Method: OECD Test Guideline 301B

Components: Dodecyldimethylamine: Readily biodegradable.

N/A	Biodegradation: 50 - 81 % Exposure time: 28 d

MOBILITY — No information available on mobility for this product.

STABILITY IN WATER — Components: Dodecyldimethylamine Oxide:

Degradation half life(DT50): 3.2 d (20 °C) Method: No information available. GLP: No information available.
Method: OECD Test Guideline 111 GLP: yes Remarks: see user defined free text

Components: N,N-dimethyltetradecylamine N-oxide:

Degradation half life(DT50): 3.2 d (20 °C) Method: No information available. GLP: No information available.

PHOTODEGRADATION — Components: N,N-dimethyltetradecylamine N-oxide:

Test Type:	Air
Rate constant:	3
Degradation (direct photolysis)	50%

ADDITIONAL INFORMATION — An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.

ENVIRONMENTAL FATE (EXPOSURE) — Data not available

DISTRIBUTION AMONG ENVIRONMENTAL COMPARTMENTS — Koc: 1525
Method: OECD Test Guideline 106

BIOACCUMULATIVE POTENTIAL — Components: Dodecyldimethylamine oxide:

Bioaccumulation	Bioconcentration factor (BCF): < 87 Remarks: Bioaccumulation is unlikely. Remarks: see user defined free text

Components: Dodecyldimethylamine:

Bioaccumulation	Species: Cyprinus carpio (Carp)

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		Bioconcentration factor (BCF): 200 - 2,400	

SECTION 13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS AND CONTAINERS	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
WASTE FROM RESIDUES	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways, or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.
CONTAMINATED PACKAGING	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14 TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS.**

Environmentally Hazardous Substances meeting the description of UN3077 or UN3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road or Rail when transported by road or rail in packagings, IBCs and any other receptacles not exceeding 500kg(L).

UN NUMBER	UN 3082
UN PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
CLASS AND SUBSIDIARY RISK	9
PACKING GROUP	III
SPECIAL PRECAUTIONS FOR USER	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.
IERG	Data not available
HAZCHEM CODE	•3Z

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; **DANGEROUS GOODS.**

This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

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UN NUMBER	UN3082
UN PROPER SHIPPING NAME	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
CLASS AND SUBSIDIARY RISK	9
PACKING GROUP	III
LABELS	9
IMDG EMS Fire:	F-A
IMDG EMS Spill:	S-F
Marine Pollutant	P

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; **DANGEROUS GOODS.**

UN NUMBER	UN 3082
UN PROPER SHIPPING NAME	Environmentally hazardous substance, liquid, n.o.s.
CLASS AND SUBSIDIARY RISK	9
PACKING GROUP	III
LABELS	Class 9 - Miscellaneous dangerous substances and articles
PACKING INSTRUCTION (CARGO AIRCRAFT)	964
PACKING INSTRUCTION (PASSENGER AIRCRAFT)	964
ENVIRONMENTALLY HAZARDOUS	Yes

SECTION 15 REGULATORY INFORMATION

CLASSIFICATION:	This material is hazardous according to Safe Work Australia; **HAZARDOUS SUBSTANCE**
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:	Skin Corrosion/Irritation – Category 2 Eye Damage/Eye Irritation - Category 1 Short-term (acute) aquatic hazard – Category 1 Long-term (chronic) aquatic hazard – Category 2
HAZARD STATEMENT(S):	H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
POISONS SCHEDULE (SUSMP):	No poison schedule number allocated

SUSMP Label Requirements

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WARNING STATEMENTS	May produce severe burns. Product will irritate the eyes, nose, throat and skin.
SAFETY DIRECTIONS:	Avoid contact with eyes. Avoid contact with skin. Avoid breathing vapour. Do not allow product to come into contact with other chemicals, especially acids. Do not allow product to come into contact with combustible materials such as paper, fabric, sawdust or kerosene. Do Not allow to dry out. Store under cover in a dry, clean, cool, well ventilated place away from sunlight. Store and transport in an upright container. Do not mix with other chemicals. Use clean containers for dispensing. Mix with water only. Do not add water to product – add product to water, but in case of fire drench with water. In case of spillage flush with large quantities of water. Avoid contact with clothing.
AICS	All ingredients are on the Australian Inventory of Chemical Substances
Additional information	
Additional national and/or international regulatory information.	

SECTION 16 OTHER INFORMATION

CONTACT PERSON/POINT	FOR EMERGENCIES ONLY CONTACT : Australia : 000 POISONS INFORMATION CENTRE : Australia 131126 : New Zealand 0800 764 766
Date of preparation or last revision of the MSDS	16 September 2021
Prepared by	SDS Manager
Additional information	

Key/legend to abbreviations and acronyms used in the MSDS.

ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
ACGIH	American Conference of Governmental Industrial Hygienists
ASCC	Australian Safety and Compensation Council
Carcinogen Category Number	1. Established human carcinogen 2. Probably human carcinogen 3. Substances suspected of having carcinogenic potential
Code AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
EPG	Emergency Procedure Guide (superseded by IERG)
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IERG	HB 76-2004 Dangerous goods - Initial Emergency Response Guide
IMDG	International Maritime Dangerous Goods. A uniform code for transport of dangerous goods at sea.
LEL	lower flammable (explosive) limits in air;
LD_{50}	Lethal Dose sufficient to kill 50% of test population
NIOSH	National Institute for Occupational Safety and Health The United States federal agency responsible for conducting research and making recommendations for the prevention of work-related injury and illness.
NOAEL	No Observed Adverse Effect Level
NOEL	No Observable Effect Level
NOHSC	National Occupational Health and Safety Commission
NTP	National Toxicology Program (USA)
PEL	Permissible Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances (Symyx Technologies')
TCL_O	Toxic Concentration Low
TD_{LO}	Toxic Dose Low : lowest dosage per unit of bodyweight (typically stated in milligrams per kilogram) of a substance known to have produced signs of toxicity in a particular animal species.
TLV	Threshold Limit Value (ACGIH):The time weighted average used to describe exposure which is harmless to most of the population when exposed 8 hours per day, 40 hours per week.

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TWA	(Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. These 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 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.
SAFEWORK	Independent statutory agency with primary responsibility to improve occupational health and safety and workers' compensation arrangements across Australia.
STEL	(Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UEL	upper flammable (explosive) limits in air;
UN Number	United Nations Number
Literature references.	
Sources for data.	Safety Data Sheets from Suppliers Hazardous Substances Information System (HSIS)– ASCC Australia (on-line) GHS (Globally Harmonised System of Substance Classification & Labelling) REACH (European Chemical Substance Information System) ADG Code 7.7th Edition SUSMP N° 33

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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 CHEMISTRY HOUSE 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 CHEMISTRY HOUSE Pty Ltd at the contact details on page 1. CHEMISTRY HOUSE 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. CHEMISTRY HOUSE Pty Ltd however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, Buyer assumes all risks.

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