# SAFETY DATA SHEET

Revision date: 16-Aug-2024



Revision Number 1

Section 1: Identification		
Product identifier		
Product Name	DSP 098	
Product Code(s)	00000054671	
Other means of identification		
UN number or ID number	1760	
Recommended use of the chemical	and restrictions on use	
Recommended use	Chemical intermediate.	
Uses advised against	No information available.	
Details of manufacturer or importer	-	
Supplier IXOM Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia		
Telephone Number: +61 3 9906 3000		
Emergency telephone number		
Emergency telephone number	1 800 033 111 (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	end of this Data Sheet.
Section 2: Hazard identific	ation	
Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.		
GHS Classification		
Aspiration hazard Skin corrosion/irritation		Category 1 Category 1 Sub-category C
Serious eye damage/eye irritation		Category 1
Skin sensitization		Category 1A
Acute aquatic toxicity		Category 1
Chronic aquatic toxicity		Category 1
Label elements		

Corrosion Health hazard Exclamation mark Environment



Signal word DANGER

### Hazard statements

H304 - May be fatal if swallowed and enters airways

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection. Avoid release to the environment.

# **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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Collect spillage.

### **Precautionary Statements - Storage**

Store locked up.

### **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

# Section 3: Composition and information on ingredients

Chemical name	CAS No.	Weight-%
1-Dodecanethiol (n-Dodecyl mercaptan)	112-55-0	75-85
Other component(s)	-	to 100

# Section 4: First aid measures

### **Description of first aid measures**

### **General advice**

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor. Show this safety data sheet to the doctor in attendance.

Inhalation	Remove to fresh air. (Call a physician if symptoms occur).
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical attention.

### Most important symptoms and effects, both acute and delayed

Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives. Aspiration risk: may cause lung damage if swallowed.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically. Can cause corneal burns. May cause sensitization by skin contact. Aspiration hazard.	

# Section 5: Firefighting measures

### Suitable Extinguishing Media

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.	
Unsuitable extinguishing media	High volume water jet.	
Specific hazards arising from the chemical		
Specific hazards arising from the chemical	Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Environmentally hazardous.	
Hazardous combustion products	Carbon oxides. Oxides of sulfur.	
Special protective actions for fire-fighters		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	
Hazchem code	2X	
Section 6: Accidental release measures		

# Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Ensure adequate<br/>ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Stop leak if<br/>you can do it without risk. Do not touch or walk through spilled material. Use personal<br/>protective equipment as required. Wash thoroughly after handling.For emergency respondersUse personal protection recommended in Section 8.

Environmental precautions		
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.	

# Section 7: Handling and storage

# Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes or clothing. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use personal protection equipment. Wash thoroughly after handling. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this chemical is being used.	
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from sources of heat or ignition. Keep container closed when not in use.	
	Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.	
Incompatible materials	Strong oxidizing agents.	

# Section 8: Exposure controls and personal protection

### Control parameters

Exposure Limits

No value assigned for this specific material by Safe Work Australia.

Chemical name	Australia	New Zealand	ACGIH TLV
1-Dodecanethiol (n-Dodecyl	-	-	TWA: 0.1 ppm
mercaptan)			dermal sensitizer
112-55-0			

As published by the American Conference of Governmental Industrial Hygienists (ACGIH).

TWA (ACGIH - Time-weighted Average) the time-weighted average concentration for a conventional 8-hour work day and a 40-hour work week, to which it is believed that nearly all workers may be repeatedly exposed, day after day, without adverse effect.

### Appropriate engineering controls

# Engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

# 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, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.

Eye/face protection	Tight sealing safety goggles. If splashes are likely to occur:. Face protection shield.
Skin and body protection	Rubber boots. Chemical resistant apron. Overalls.
Hand protection	Elbow-length impervious gloves.
Respiratory protection	If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
Environmental exposure controls	No information available.
Thermal hazards	No information available.

# Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	No information available	
Color	Colourless	
Odor	Unpleasant	
Odor threshold	No information available	
Property	Values	Remarks • Method
рН	Not applicable	None known
pH (as aqueous solution)	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	270°C	None known
Flash point	133°C	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	0 @25°C	None known
Vapor density	1 (air=1.0)	None known
Relative density	0.8456 at 15°C; 0.8411 at 20°C	; 0.8131None known
	at 50°C.	
Water solubility	0.0054 mg/L	OECD Test Guideline 105
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known

### Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity

230°C No data available No data available 2.98 cPs @25°C None known None known None known

Other information

Section 10: Stability and reactivity		
Reactivity		
Reactivity	No information available.	
Chemical stability		
Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.	
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. Yes.	
Possibility of hazardous reactions	-	
Possibility of hazardous reactions	None under normal processing.	
Hazardous polymerization	Hazardous polymerization does not occur.	
Conditions to avoid		
Conditions to avoid	Heat, flames and sparks.	
Incompatible materials		
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products		
Hazardous decomposition products Carbon oxides. Oxides of sulfur.		

# Section 11: Toxicological information

# 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.
Eye contact	Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Causes burns. May cause sensitization by skin contact.
Ingestion	Can burn mouth, throat, and stomach. Potential for aspiration if swallowed.
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives. Aspiration risk: may cause lung damage if swallowed.

# Acute toxicity .

<u>Numerical measures of toxicity</u> - Product Information No information available

# **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
1-Dodecanethiol (n-Dodecyl	>5000 mg/kg (rat)	>= 2000 mg/kg (Rat)	-	
mercaptan)				
See section 16 for terms and abbrevia	ations			
Delayed and immediate effects as v	Vell as chronic effects from sh	ort and long-term exposure		
Skin corrosion/irritation	Causes burns.			
Serious eye damage/eye irritation	Causes serious eye damage.			
Respiratory or skin sensitization	A skin sensitizer.			
Germ cell mutagenicity	Not mutagenic in AMES Test. (major component).			
Carcinogenicity	No information available.			
Reproductive toxicity	No information available.			
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Aspiration hazard	May be fatal if swallowed and	enters airways.		
•	-	-		

# Section 12: Ecological information

# **Ecotoxicity**

# Aquatic ecotoxicity

Very toxic to aquatic life with long lasting effects. Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1-Dodecanethiol (n-Dodecyl mercaptan)	72hr EC50: 0.0145 mg/L (Green algae)	-	-	48hr EC50: 1-10 mg/L (Daphnia magna)

# **Terrestrial ecotoxicity**

There is no data for this product.

### Persistence and degradability

Persistence and degradability	Not readily biodegradable.
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### Bioaccumulative potential

Bioaccumulation

For n-Dodecyl mercaptan: Bioconcentration factor (BCF): 228-781.2.

#### **Component Information**

Chemical name	Partition coefficient	
1-Dodecanethiol (n-Dodecyl mercaptan)	6.5	

<u>Mobility</u>

Mobility

Other adverse effects

Other adverse effects

No information available.

No information available.

# Section 13: Disposal considerations

### Waste treatment methods

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

See section 8 for more information

#### Section 14: Transport information ADG Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS. **UN number or ID number** 1760 CORROSIVE LIQUID, N.O.S. (n-DODECYL MERCAPTAN) Proper shipping name Transport hazard class(es) 8 Ш Packing group Hazchem code 2X Classified as Dangerous Goods by the criteria of the International Air Transport Association ΙΑΤΑ (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS. **UN number** 1760 CORROSIVE LIQUID, N.O.S. (n-DODECYL MERCAPTAN) UN proper shipping name Transport hazard class(es) 8 Ш Packing group Classified as Dangerous Goods by the criteria of the International Maritime Dangerous IMDG Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS. **UN number** 1760 CORROSIVE LIQUID, N.O.S. (n-DODECYL MERCAPTAN) MARINE POLLUTANT UN proper shipping name Transport hazard class(es) 8 Packing group ш **IMDG EMS Fire** F-A IMDG EMS Spill S-B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

# Section 15: Regulatory information

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

National regulations

<u>Australia</u>

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS). Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

See section 8 for national exposure control parameters

#### Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

No poisons schedule number allocated

Poison Schedule Number Not applicable

# Australian Industrial Chemicals Introduction Scheme (AICIS)

Contact supplier for inventory compliance status

	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
1-Dodecanethiol (n-Dodecyl mercaptan) - 112-55-0	Present	-

# **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

Legend:

AllC- Australian Inventory of Industrial Chemicals

# 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

### **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

# Section 16: Other information

Supplier Safety Data Sheet 06/ 2024

Reason(s) For Issue:	First Issue Primary SDS

Revision date: 16-Aug-2024

### **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

SVHC: Substances of Very High Concern for Authorization: PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances STOT: Specific Target Organ Toxicity ATE: Acute Toxicity Estimate LC50: 50% Lethal Concentration LD50: 50% Lethal Dose

#### 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) 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) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) 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) U.S. 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 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