# SAFETY DATA SHEET

Revision date: 04-Apr-2022

# IXOM

Revision Number 2

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product identifier	
Product Name	DSP 096
Product Code(s)	00000053319
Other means of identification	
UN number	1760
CAS No.	112-55-0
Synonyms	1-Dodecanethiol; Dodecyl mercaptan; Lauryl mercaptan; Mercaptan C12.
Recommended use of the chemical	and restrictions on use
Recommended use	Flotation agent.
Uses advised against	No information available.

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

### <sup>ber</sup> 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

### 2. HAZARDS IDENTIFICATION

### **GHS Classification**

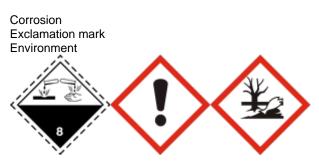
Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Skin corrosion/irritation	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

### SIGNAL WORD Danger

### Label elements



#### **Hazard statements**

H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations: H410 - Very toxic to aquatic life with long lasting effects

### **Precautionary Statements - Prevention**

Do not breathe fume, gas, mist, vapours, 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 / protective clothing / eye protection / 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 Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell IF SWALLOWED: Rinse mouth. DO NOT induce vomiting IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell 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

Poisons Schedule (SUSMP) None allocated

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Substance

Chemical name	CAS No.	Weight-%
1-Dodecanethiol	112-55-0	98.5

### 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 advice/attention.	
Most important symptoms and effe	cts, both acute and delayed	
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives.	
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.	
5. FIRE FIGHTING MEASU Suitable Extinguishing Media	RES	

Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.
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	Unsuitable extinguishing media	High volume water je
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Specific hazards arising from the chemical

Specific hazards arising from the<br/>chemicalCorrosive hazard. Wear protective gloves/clothing and eye/face protection. Environmentally<br/>hazardous.

Hazardous combustion products Carbon oxides. Oxides of sulfur.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
Hazchem code	2X

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsAvoid contact with skin, eyes, and 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 containm	ent 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.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes, and 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.

### 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.

Poisons Schedule (SUSMP) None allocated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

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

#### Appropriate engineering controls

**Engineering controls** 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 respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.	
Environmental exposure controls	No information available.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic	physical and chemical properties	
Physical state	Liquid	

Physical state Appearance Color Odor Odor threshold

Cuci	Unpleasant	
Odor threshold	No information available.	
Property_	Values_	Remarks • Method
pH	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	No data available	None known
Water solubility	0.0000054 g/L	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	230°C	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	2.98 cPs @25°C	None known
Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	No data available 230°C No data available No data available	None known None known None known None known

No information available.

Colourless

Unpleasant

Other information

# **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 impact None.			
Sensitivity to static discharge	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.

### 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.	
Eye contact	Causes serious eye damage. May cause irreversible damage to eyes.	
Skin contact	Contact causes severe skin irritation and possible burns.	
Ingestion	Can burn mouth, throat, and stomach.	
Symptoms	Irritation/Corrosion. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives.	

### Numerical measures of toxicity - Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1-Dodecanethiol	>5000 mg/kg (rat)	-	-

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	Causes burns.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	Not mutagenic in AMES Test.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Ecotoxicity

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

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

### Persistence and degradability

Persistence and degradability Not readily biodegradable.

#### Bioaccumulative potential

**Bioaccumulation** No information available.

### **Mobility**

Mobility in soil

No information available.

Other adverse effects

### 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### **14. TRANSPORT INFORMATION**

### <u>AD</u>G

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	1760
Proper shipping name	CORROSIVE LIQUID, N.O.S. (1-DODECANETHIOL)
Hazard class	8
Packing group	III
Hazchem code	2X

### ΙΑΤΑ

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	1760
UN proper shipping name	CORROSIVE LIQUID, N.O.S. (1-DODECANETHIOL)
Transport hazard class(es)	8
Packing group	III

#### IMDG

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

### **15. REGULATORY INFORMATION**

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

#### National regulations

#### Australia

Classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

None allocated Poisons Schedule (SUSMP)

International Inventories	
AIIC	This material is listed on the Australian Inventory of Industrial Chemicals.

Legend:

AIIC - 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 07/2019

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Issuing Date: 04-Apr-2022

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **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 Se	ction 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

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**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text 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.

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End of Safety Data Sheet