# SAFETY DATA SHEET



Revision date: 25-Nov-2021

**Revision Number** 4

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name DSP 025

**Product Code(s)** 000000017509

Other means of identification

UN number 1719

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Mineral flotation collector.

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 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 B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

#### SIGNAL WORD

Danger

#### Label elements

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#### **Hazard statements**

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

#### **Precautionary Statements - Prevention**

Do not breathe 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

Use personal protective equipment as required

### **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 (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

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **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

AUH031 - Contact with acids liberates toxic gas

Poisons Schedule (SUSMP) 5

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical name	CAS No.	Weight-%
Phosphorodithioic acid,	53378-51-1	20-60
O,O-bis(2-methylpropyl)ester, sodium salt		
O-Isopropyl ethyl thiocarbamate	141-98-0	10-<30
Sodium hydroxide	1310-73-2	<1
Non hazardous 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, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

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Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. 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 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. Drink 1 or 2 glasses of water.

Get immediate medical advice/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.

#### 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 MEASURES

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Corrosive hazard. Wear protective gloves/clothing and eye/face protection.

#### 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 2R

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid breathing vapors or mists. Avoid contact with skin, eyes, and clothing. Ensure

adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment

as required. Wash thoroughly after handling.

**Environmental precautions** 

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

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**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 breathing vapors or mists. Avoid contact with skin and eyes. Do not eat, drink or

smoke when using this product. Keep out of reach of children.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

foodstuffs. Keep container closed when not in use.

This material is a Scheduled Poison and must be stored, maintained and used in

accordance with the relevant regulations.

**Incompatible materials** Acids. Mineral acids.

Poisons Schedule (SUSMP) 5

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure Limits No value assigned for this specific material by Safe Work Australia. However, Workplace

Exposure Standard(s) for constituent(s):

Sodium hydroxide: Peak Limitation = 2 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

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

Ensure that eyewash stations and safety showers are close to the workstation location.

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.

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#### 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. Face protection shield.

Skin and body protection Wear suitable protective clothing. Apron. Overalls. Rubber boots.

Hand protection Impervious gloves.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator Respiratory protection

meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

No information available. **Environmental exposure controls** 

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** No information available. Color Yellow to Dark brown

Odor Pungent

**Odor threshold** No information available.

**Property** Remarks • Method Values 10-13 None known Hq pH (as aqueous solution) No data available 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 No data available None known Vapor density Relative density ca. 1.1 None known Water solubility Miscible in water None known Solubility(ies) No data available None known Partition coefficient No data available None known No data available None known Autoignition temperature No data available **Decomposition temperature** None known Kinematic viscosity No data available None known No data available None known

Other information

**Dynamic viscosity** 

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# 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** Contact with acids liberates toxic gas.

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 Can react with mineral acids evolving flammable and toxic hydrogen sulphide gas. Can

react with acids evolving flammable and toxic hydrogen sulphide gas.

**Conditions to avoid** 

**Conditions to avoid**Do not contaminate food or feed stuffs.

**Incompatible materials** 

**Incompatible materials** Acids. Mineral acids.

**Hazardous decomposition products** 

Hazardous decomposition products Hydrogen sulfide. Oxides of sulfur. Phosphorus oxides. 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.

**Eye contact** Causes serious eye damage. May cause irreversible damage to eyes.

**Skin contact**Contact causes severe skin irritation and possible burns. May cause sensitization by skin

contact.

**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

No information available.

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#### Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphorodithioic acid, O,O-bis(2-methylpropyl)ester, sodium salt	= 3 g/kg ( Rat )	-	-
Sodium hydroxide	-	= 1350 mg/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 Causes burns. Classification is based on mixture calculation methods based on component

data.

Serious eye damage/eye irritation Causes serious eye damage. Classification is based on mixture calculation methods based

on component data.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**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.

Chronic effects: This product may liberate carbon disulphide on contact with moist skin. Chronic exposure

to carbon disulphide may produce central and peripheral nervous system, cardiovascular,

gastrointestinal, kidney, eye disorders.

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Ecotoxicity** Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
O-Isopropyl ethyl	-	LC50: 40 - 45mg/L (96h,	-	-
thiocarbamate		Oncorhynchus mykiss)		
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-	-
-		Oncorhynchus mykiss)		

### Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

Mobility

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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 should be taken to an approved waste handling site for recycling or

disposal.

### 14. TRANSPORT INFORMATION

<u>ADG</u>

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 1719

Proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS PHOSPHORODITHIOIC ACID,

O,O-BIS(2-METHYLPROPYL)ESTER, SODIUM SALT)

Hazard class 8
Packing group II
Hazchem code 2R

**IATA** 

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 1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS PHOSPHORODITHIOIC ACID,

O,O-BIS(2-METHYLPROPYL)ESTER, SODIUM SALT)

Transport hazard class(es) 8
Packing group | |

**IMDG** 

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

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UN number 1719

UN proper shipping name CAUSTIC ALKALI LIQUID, N.O.S. (CONTAINS PHOSPHORODITHIOIC ACID,

O,O-BIS(2-METHYLPROPYL)ESTER, SODIUM SALT)

Transport hazard class(es) 8
Packing group II
IMDG EMS Fire F-A
IMDG EMS Spill S-B

### 15. REGULATORY INFORMATION

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

**National regulations** 

Australia

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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

Poisons Schedule (SUSMP) 5

**International Inventories** 

All the constituents of this material are listed on the Australian Inventory of Industrial

Chemicals.

Legend:

- 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**

Reason(s) For Issue: Revised Primary SDS

Change to Transport Information

Change in UN Number

Issuing Date: 25-Nov-2021

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 Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C 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)

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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**

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**End of Safety Data Sheet**