

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: DSP 009  
Other name(s): Isopropyl ethyl thiocarbamate; IPETC.

Recommended use of the chemical and restrictions on use: Mineral flotation collector.

Supplier: Kemcore

Street Address: Level 7, Unit 703 133 Connaught Rd Central Centrla  
Hong Kong

Telephone Number: +852 3478 7314

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

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

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

Classification of the substance or mixture:

Flammable liquids - Category 4 Skin Sensitisation - Category 1 Carcinogenicity - Category 2  
Acute Aquatic Toxicity - Category 3 Chronic Aquatic Toxicity - Category 3

SIGNAL WORD: WARNING



Hazard Statement(s):

H227 Combustible liquid.

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statement(s):

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat / sparks / open flames / hot surfaces. No smoking. P261 Avoid breathing mist / vapours / spray.

P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection. P281 Use personal protective equipment as required.

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see First Aid Measures on Safety Data Sheet). P363 Wash contaminated clothing before re-use.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P370+P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet to extinguish.

Storage:

P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Poisons Schedule (SUSMP): None allocated.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
O-Isopropyl ethyl thiocarbamate	141-98-0	>95%	H317 H412
Isopropyl alcohol	67-63-0	<2%	H225 H319 H336
1,3-Diethyl thiourea	105-55-5	<2%	H302 H317 H318 H351 H335 H412
Other ingredient(s)	-	2%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

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## Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

## Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If irritation occurs, seek medical advice.

## Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice

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## Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by the mouth to an unconscious patient. Seek medical advice.

## Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

### Unsuitable Extinguishing Media:

Water jet.

### Specific hazards arising from the substance or mixture:

Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon .

### Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures/Environmental precautions:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

Classified as a C1 (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.

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## Precautions for safe handling:

Avoid eye contact and repeated or prolonged skin contact. Take precautionary measures against static discharges.

## Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Isopropyl alcohol: 8hr TWA = 983 mg/m<sup>3</sup> (400 ppm), 15 min STEL = 1230 mg/m<sup>3</sup> (500 ppm)

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

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

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:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

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 (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.

**OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.**



Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an air supplied respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

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Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

When handling this product in bulk quantities, and/or in Intermediate Bulk Containers (IBC's), wear overalls, safety shoes, impervious gloves, chemical goggles, and a face shield. If determined by a risk assessment an inhalation risk exists, wear appropriate respiratory protection as mentioned above.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Clear , Oily Liquid

Colour: Amber to Reddish

Odour: Slight Pungent

Solubility: Slightly soluble in water. Soluble in organic solvents.

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Specific Gravity: 0.99-0.994 @20°C Relative Vapour Density (air=1): Not available Vapour Pressure (20°C): Not available  
Flash Point (°C): 91 (main component) Flammability Limits (%): Not available Autoignition Temperature (°C): Not available Boiling Point/Range (°C): Not available Decomposition Point (°C): 200

pH: Not available

Freezing Point/Range (°C): -30

Reactivity: No information available.

Chemical stability: Stable at ambient temperatures.

Possibility of hazardous reactions: None known.

reactions:

Conditions to avoid: None known.

Incompatible materials: Incompatible with strong oxidising agents , strong acids , copper , brass .

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

products:

## 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:

Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation.

Inhalation: Breathing in vapour may produce respiratory irritation.

Acute toxicity:

Oral LD50 (rat): 2324 mg/kg Dermal LD50 (rabbit): >2000 mg/kg Inhalation LC50 (rat): 20 mg/L/4hr

Skin corrosion/irritation: Mild irritant (rabbit).

Serious eye damage/irritation: Mild irritant (rabbit).

Respiratory or skin sensitisation: A skin sensitiser (guinea pig).

Chronic effects: Suspected of causing cancer.

## 12. ECOLOGICAL INFORMATION



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Ecotoxicity Avoid contaminating waterways.

48hr LC50 (Daphnia magna): ca. 17 mg/L 96hr LC50 (rainbow trout): >50 mg/L

## 13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

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.

## 15. REGULATORY INFORMATION

Classification:

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

Classification of the substance or mixture:

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Poisons Schedule (SUSMP): None allocated.

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## 16. OTHER INFORMATION

Supplier Material Safety Data Sheet; 04/ 2012.

Reason(s) for Issue:  
Revised Primary SDS Alignment to GHS requirements