



## IPET

### Identification of product and company

#### Identification of the substance

**Product name:** DSP 009

**Other names:** Isopropyl ethyl thiocarbamate; IPETC.

**Molecular formula:** (CH<sub>3</sub>)<sub>2</sub>CHOC(S)NHC<sub>2</sub>H<sub>5</sub>

**Description/Recommended Use:** Slight yellow or jacinth liquid with odor and weak acidity, insoluble in water, soluble in alcohol, aether, benzene and petrolic aether. Mineral flotation collector.

#### Company/Undertaking Identification

**Company name:** VictoriaFortress

**Address:** Unit 2108. CC Wu Build. 308 Hennessy Road Wanchai HONG Kong

**Telephone:** +852-54892941

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**Http:** www.vf-chem.com

**For Emergency Assistance, please call 86 24 74570273**

### 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.

#### Precautionary Statement(s):

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat / sparks / open flames / hot surfaces. No smoking. Avoid breathing mist / vapours / spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. Use personal protective equipment as required.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use.

**IF exposed or concerned:** Get medical advice/attention.

**Storage:** Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Poisons Schedule (SUSMP):** None allocated



## Composition/information on ingredients

<b>Name</b>	<b>CAS#</b>	<b>Percent</b>
O-Isopropyl ethyl thiocarbamate	141-98-0	95%
Isopropyl alcohol	67-63-0	2%
1,3-Diethyl thiourea	105-55-5	2%
Other components	-	1%

### First aid measures

**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. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice

**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.

**Skin Contact:** If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

### Firefighting 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.

### Accidental release measure

**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.

## Handling and storage

**Precautions for safe handling:** Avoid eye contact and repeated or prolonged skin contact. Take precautionary measures against static discharges.

**Conditions for safe storage:** Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials. Keep containers closed when not in use - check regularly for leaks.

## Exposure Controls/Personal Protection

### 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.

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.

## Physical and Chemical Properties

**Physical state/Appearance:** Clear, Oily Liquid

**Colour:** Amber to Reddish

**Odour:** Slight Pungent

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

**Molecular Formula:** (CH<sub>3</sub>)<sub>2</sub>CHOC(S)NHC<sub>2</sub>H<sub>5</sub>

**Molecular Weight:** 147.25

**Specific Gravity:** 0.99-0.994 (20°C)

**Freezing Point/Range:** -30°C

**Flash point:** 91°C

## Stability and Reactivity Data

**Stability:** Stable at ambient temperatures.

**Incompatible materials:** Incompatible with strong oxidising agents , strong acids , copper, brass. Hazardous Decomposition Products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.

## 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.

## Ecological Information

**Ecotoxicity:** Avoid contaminating waterways

## Disposal considerations

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

## 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.

## Other Information

**Classification:** 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

**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.

**Poisons Schedule (SUSMP):** None allocated.

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