

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** SODIUM 2-MERCAPTOBENZOTHIAZOLE LIQUID

Recommended Use of the Chemical In the separation of sulfide ores from copper ore. and Restrictions on Use

Supplier: Ixom Operations Ptv Ltd

51 600 546 512 ABN:

Street Address: Level 8, 1 Nicholson Street

East Melbourne Victoria 3002

Australia

+61 3 9906 3000 **Telephone Number:** 

**Emergency Telephone:** 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

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

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

#### Classification of the chemical:

Corrosive to Metals - Category 1 Skin Corrosion - Sub-category 1C Eye Damage - Category 1 Skin Sensitisation - Category 1 Acute Aquatic Toxicity - Category 1 Chronic Aquatic Toxicity - Category 1

#### **SIGNAL WORD: DANGER**







### Hazard Statement(s):

H290 May be corrosive to metals.

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 Statement(s):

#### Prevention:

P234 Keep only in original container.

P260 Do not breathe mist, vapours, spray.

P264 Wash hands thoroughly after handling.

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.

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#### Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before re-use.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P321 Specific treatment (see First Aid Measures on Safety Data Sheet).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

#### Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

#### Disposal:

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

Poisons Schedule (SUSMP): None allocated.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Sodium mercaptobenzothiazole (NaMBT)	2492-26-4	30-60%	H314 H317 H410
Ingredients determined not to be hazardous	-	to 100%	-

## 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.

#### 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.

#### **Skin Contact:**

If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

#### **Eye Contact:**

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

#### Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

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

Treat symptomatically. Can cause corneal burns.

## 5. FIRE FIGHTING MEASURES

#### Suitable Extinguishing Media:

Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem or Emergency Action Code: 2X

#### Specific hazards arising from the chemical:

Non-combustible material.

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

Decomposes on heating emitting toxic fumes, including those of oxides of carbon, oxides of nitrogen, and oxides of sulfur. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Emergency procedures/Environmental precautions:**

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

#### Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

## Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Store between 5°C and 40°C. Do not store in aluminium containers. Do not store in zinc containers. 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.

#### Appropriate engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

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

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Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Yellow . Brown .

Odour: Characteristic
Miscible in water.
Specific Gravity: 1.26 kg/L @20°C
Relative Vapour Density (air=1): Not available
Vapour Pressure (20 °C): ca. 3.2 kPa
Flash Point (°C): Not applicable
Flammability Limits (%): Not applicable

Autoignition Temperature (°C): 480 Boiling Point/Range (°C): 107

**pH:** 10.5-11.3 @20°C

Freezing Point/Range (°C): -14

## 10. STABILITY AND REACTIVITY

**Reactivity:** No information available.

Chemical stability: Stable.

Possibility of hazardous

reactions:

Reacts with aluminium or zinc liberating flammable hydrogen gas.

Conditions to avoid: None known.

**Incompatible materials:** Incompatible with acids, aluminium, zinc.

**Hazardous decomposition** 

products:

Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Metal oxides.

## 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:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and

chemical burns to the gastrointestinal tract.

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**Eye contact:** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns.

Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin

burns. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic

contact dermatitis.

**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation.

Acute toxicity:

Oral LD50 (rat): 5200 mg/kg.

Dermal LD50 (rabbit): >5010 mg/kg. Inhalation LC50 (rat): >6.5 mg/L, 6 hours.

Skin corrosion/irritation: Corrosive (rabbit).

Serious eye damage/irritation: Corrosive (rabbit).

Chronic effects: No information available for the product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

Aquatic toxicity: Very toxic to aquatic organisms. May cause long lasting harmful effects to aquatic

life.

## 13. DISPOSAL CONSIDERATIONS

## Disposal methods:

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Decontamination and destruction of containers should be considered.

## 14. TRANSPORT INFORMATION

#### **Road and Rail Transport**

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail: DANGEROUS GOODS.



UN No: 3267

Transport Hazard Class: 8 Corrosive

Packing Group:

Proper Shipping Name or CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS

Technical Name: 2-MERCAPTOBENZOTHIAZOLE, SODIUM SALT)

Hazchem or Emergency Action 2X

Code:

#### **Marine Transport**

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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Substance No: 000000015114

Product Name: SODIUM 2-MERCAPTOBENZOTHIAZOLE LIQUID Issued: 01/12/2017



Transport Hazard Class: 8 Corrosive

Packing Group:

Proper Shipping Name or CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS

**Technical Name:** 2-MERCAPTOBENZOTHIAZOLE, SODIUM SALT)

IMDG EMS Fire: F-A IMDG EMS Spill: S-B

**Air Transport** 

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

JN No: 3267

Transport Hazard Class: 8 Corrosive

Packing Group:

Proper Shipping Name or CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (CONTAINS

Technical Name: 2-MERCAPTOBENZOTHIAZOLE, SODIUM SALT)

## 15. REGULATORY INFORMATION

#### Classification:

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

#### Classification of the chemical:

Corrosive to Metals - Category 1 Skin Corrosion - Sub-category 1C Eye Damage - Category 1 Skin Sensitisation - Category 1 Acute Aquatic Toxicity - Category 1 Chronic Aquatic Toxicity - Category 1

#### Hazard Statement(s):

H290 May be corrosive to metals.

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.

Poisons Schedule (SUSMP): None allocated.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

### 16. OTHER INFORMATION

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

## Reason(s) for Issue:

5 Yearly Revised Primary SDS

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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.

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