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## Material Safety Data Sheet

### Sodium Isopropyl Xanthate

#### Section 1: Chemical Product and Company Identification

**Molecular formula:**C4H8NaOS2

**CAS Nr:**140-93-2

**Molecular weight:**159.22

**Synonyms:**SIPX

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#### Section 2: Composition and Information on Ingredients

**Composition:**

<b>Name</b>	<b>CAS #</b>	<b>%By Weight</b>
Sodium Isopropyl Xanthate	140-93-2	≥90

### Section 3: 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 SUBSTANCE.

Classification of the substance or mixture:

Self-heating substances and mixtures - Category 1

Acute Oral Toxicity - Category 4 Skin Irritation - Category 2

Acute Aquatic Toxicity - Category 2

Chronic Aquatic Toxicity - Category 2

SIGNAL WORD: DANGER



Hazard Statement(s):

H251 Self-heating; may catch fire.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention: P235+P410 Keep cool. Protect from sunlight.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

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

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

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

**Storage:**

P407 Maintain air gap between stacks/pallets.

P420 Store away from other materials.

**Disposal:**

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

### Section 4: First Aid Measures

**Eye Contact:**

Flush with water or buffer solution for 15 minutes. Seek medical attention.

**Skin Contact:**

Remove contaminated clothing. Thoroughly wash skin with water and soap. Wash clothing before reusing.

**Inhalation:**

Move to fresh air. Keep comfortable and warm. Apply artificial respiration and external cardiac massage if necessary. Seek medical attention. Give oxygen if breathing laboured or patient turning blue.

**Swallowed:**

If patient is conscious, induce vomiting by sticking finger or spoon down the throat.

If not breathing apply artificial respiration until oxygen resuscitator is available and seek urgent medical attention.

**Section 5: Fire and Explosion Data**

Water should not be used in a confined space where toxic vapor can accumulate.

In this situation, use dry chemical but beware of reignition. Fire fighters should wear self

Contained apparatus and impervious clothing. Use large quantities of water and flush drains thoroughly.

**Section 6: Accidental Release Measures**

**Dry Spill**

Wear eye protection and gloves, dust mask if necessary. Collect in dry containers and seal to be reused if possible.

Do not dilute with water.

**Wet Spill**

Self contained breathing apparatus should be used. Absorb on a 3-662 oil dry. Place in a Sealed Container.

Xanthates may be recovered by leaching out with water, but if recovery is not possible bury in an approved "land fill" site, flush remaining spill away plenty of water.

**Section 7: Handling and Storage**

Dangerous substance for the purpose of transport.

Refer to State Regulation for storage and transport requirements.

Store in well ventilated area away from foodstuffs, heat and moisture. Part full packages must be kept closed.

Storage life-6 months.

Do not cause sparks when opening drums.

**Section 8: Exposure Controls/Personal Protection**

**Eye**

Irritant dust. Possible infection and injury.

**Skin**

Toxic components can be absorbed through the skin.

**Inhalation**

Deep and rapid breathing, drowsiness, loss of feeling.

**Swallowed**

Toxic

## Section 9: Physical and Chemical Properties

Yellow powder or pellet. Readily soluble in water and alcohol. Insoluble in hydrocarbons and ether, reacts with water to produce toxic and flammable carbon disulphide vapour and hydrogen sulphide gas.

## Section 10: Stability and Reactivity Data

Reactivity: Reacts with moisture liberating highly flammable carbon disulfide vapours.

Chemical stability: No information available.

Possibility of hazardous reactions: Reacts exothermically with water

Conditions to avoid: Avoid exposure to moisture. Avoid exposure to heat.

Incompatible materials: Incompatible with acids, oxidising agents, and moisture.

## Section 11: Toxicological Information

### XANTHATE

Dust irritates the eyes, nose, throat and lungs and oral toxin mildly irritates the skin.

If swallowed carbon disulphide is released in the stomach due to the acid present there.

### CARBON DISULPHIDE

Severe acute effects on the CNS and mind. TLV 10 ppm (TWA)

Anaesthesia / respiratory paralysis

### NERVOUS SYSTEM TOXIN

Local effects are skin or mucosal membrane irritation and burning, peripheral nerve degeneration.

Chronic overexposure leads to cardio vascular disease.

### HYDROGEN SULPHIDE

Deep rapid breathing.

TLV 10ppm (TWA)

Loss of consciousness. CNS (high) Respiratory

paralysis

Irritating to respiratory tract. Conjunctivitis and keratitis.

## Section 12: Ecological Information

Ecotoxicity Avoid contaminating waterways.

Aquatic toxicity: Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

### Section 13: Disposal Considerations

**Disposal methods:**

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Advise flammable nature.

### Section 14: Transport Information

UN Number:3342 Packing Group:III

HS CODE:29309020 Classified as a 4.2 (SELF HEATING SOLID)

### Section 15: Other Regulatory Information

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

**Classification of the substance or mixture:**

Self-heating substances and mixtures - Category 1

Acute Oral Toxicity - Category 4

Skin Irritation - Category 2

Acute Aquatic Toxicity - Category 2

Chronic Aquatic Toxicity - Category 2

### Section 16: Other Information

**References:** Not available.

**Other Special Considerations:** Not available.

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