

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification

Product Name	Sodium Isobutyl Xanthate (SIBX) >90%
CAS Number	25306-75-6
Chemical Formula	(CH3)2CHCH2OCSSNa(K)
Company Name	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
Contact	sales@camachem.com
Company Website	www.camachem.com

Section 2: Composition and Information on Ingredients

INGREDIENT	CAS No.	CONTENT
Sodium Isobutyl Xanthate	25306-75-6	>90%
Sodium Hydroxide	1310-73-2	< 0.2 %

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 2 Acute Oral Toxicity - Category 4
Acute Dermal Toxicity - Category 4 Skin Irritation - Category 2
Eye Irritation - Category 2A

Hazard Statement(s):

H252 Self-heating in large quantities; may catch fire. H302+H312 Harmful if swallowed or in contact with skin. H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

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P235+P410 Keep cool. Protect from sunlight. P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves / protective clothing / eye protection / face protection. P102 Keep out of reach of children.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell. P322 Specific measures (see First Aid Measures on Safety Data Sheet). P363 Wash contaminated clothing before re-use.

P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.

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

Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

Storage:

P407 Maintain air gap between stacks/pallets. P420 Store away from other materials.

P413 Store bulk masses greater than ..kg <specify mass> at temperatures not exceeding °C <specify temperature>.

Disposal:

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

Section 4: 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. Seek medical advice.

Skin Contact:	<p>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.</p>
Eye Contact:	<p>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 to hospital or medical centre. Continue to wash with large amounts of water until medical help is available.</p>
Medical Attention & Special treatment	Treat symptomatically.
Section 5: Fire and Explosion Data	
Hazards from combustion products:	Combustible solid. On burning will emit toxic fumes, including those of oxides of carbon .
Specific hazards arising from the substance or mixture:	Substance liable to spontaneous combustion. Avoid all ignition sources. In common with many organic chemicals, may form flammable dust clouds in air. For precautions necessary refer to Safety Data Sheet "Dust Explosion Hazards".
Suitable Extinguishing Media:	Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
Hazchem or Emergency Action Code:	1Y
Precautions for fire fighters and special protective equipment:	Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Decomposes on heating emitting toxic fumes, including those of carbon disulfide .Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if

	risk of exposure to products of decomposition.
Section 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
Methods and materials for containment and cleaning up:	Wear protective equipment to prevent skin and eye contact and breathing in vapours/dust. DO NOT allow material to get wet. Air- supplied masks are recommended to avoid inhalation of toxic material. Vacuum solid spills instead of sweeping. Collect and seal in properly labelled containers or drums for disposal. Use non-sparking tools.
Section 7: Handling and Storage	
Handling:	Avoid skin and eye contact and breathing in dust. Keep out of reach of children.
Storage:	Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep dry - reacts with water, may lead to drum rupture. Keep containers closed when not in use - check regularly for spills.
Other Information:	
Section 8: Exposure Controls/Personal Protection	
Exposure Limits:	No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for

	<p>particulates:</p> <p>Dusts not otherwise classified: 8hr TWA = 10 mg/m³</p>
Protective Equipment:	<p>The selection of PPE is dependant 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.</p> <p>OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.</p>
Engineering Controls:	<p>Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Avoid generating and breathing in dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use</p>
Hygiene Precautions:	<p>Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.</p>
Section 9: Physical and Chemical Properties	
<p>Physical state: Pellets Colour: Yellowish Odour: Unpleasant Solubility: Soluble in water. Specific Gravity: 0.75-0.80 Relative Vapour Density (air=1): Not available Vapour Pressure (20 °C): Not available Flash Point (°C): Not available Flammability Limits (%): Not available Autoignition Temperature (°C): Not available Melting Point/Range (°C): >=200 pH: Not available</p>	
Section 10: Stability and Reactivity Data	

Chemical Stability:	Stable under normal conditions of use. Hygroscopic: absorbs moisture or water from surrounding air.
Hazardous Decomposition Products:	Hazardous polymerisation will not occur. Can react with water producing carbon disulfide
Conditions to Avoid:	Avoid dust generation. Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to moisture.
Incompatible materials:	Incompatible with oxidising agents , combustible materials , acids , water , phosgene or sulphur chlorides
Hazardous reactions: Reacts exothermically on dilution with water.	
Section 11: Toxicological Information	
ERMA Classification:	
Ingestion:	Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions and loss of consciousness. Death may occur if large amounts are ingested.
Inhalation:	Contact with skin will result in irritation. Will liberate carbon disulfide upon contact with moist skin. Carbon disulfide can be absorbed through the skin with resultant adverse effects.
Skin Contact:	Contact with skin will result in irritation. Will liberate carbon disulfide upon contact with moist skin. Carbon disulfide can be absorbed through the skin with resultant adverse effects.
Eye Contact:	An eye irritant.
Section 12: Ecological Information	
ERMA Classification:	

Ecotoxicity:	Avoid contaminating waterways
Section 13: Disposal Considerations	
Disposal methods:	Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Dispose of material through a licensed waste contractor. Advise flammable nature.
Section 14: Transport Information	
<p>Road and Rail Transport</p> <p>Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road</p> <p>and Rail; DANGEROUS GOODS.</p> <p>UN No: 3342 Transport Hazard Class: 4.2 Spontaneously Combustible Packing Group: III Proper Shipping Name or Technical Name: XANTHAT ES Hazchem or Emergency Action Code: 1Y</p> <p>Marine Transport</p> <p>Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.</p> <p>UN No: 3342 Transport Hazard Class: 4.2 Spontaneously Combustible Packing Group: III Proper Shipping Name or Technical Name: XANTHAT ES Hazchem or Emergency Action Code: 1Y</p> <p>IMDG EMS Fire: F-A IMDG EMS Spill: S-J</p> <p>Air Transport</p>	



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Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods

Regulations for transport by air; DANGEROUS

GOODS. UN No: 3342
Transport Hazard Class: 4.2 Spontaneously Combustible
Packing Group: III
Proper Shipping Name or
Technical Name: XANTHATES

Section 15: Other Regulatory Information

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

Classification of the substance or mixture:

Self-heating substances and mixtures - Category 2

Acute Oral Toxicity -
Category 4 Acute Dermal
Toxicity - Category 4 Skin
Irritation - Category 2
Eye Irritation - Category 2A

Hazard Statement(s):

H252 Self-heating in large quantities; may catch fire.
H302+H312 Harmful if swallowed or in contact with
skin. H315 Causes skin irritation.
H319 Causes serious eye irritation.

Poisons Schedule (SUSMP): None allocated.

Hazard Category: Xi: Irritant
Risk Phrase(s): R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
Safety Phrase(s): S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Poisons Schedule: None allocated

Section 16: Other Information

**CAMACHEM (Part of CAMAL Group), 3F Jinlong East Beijing Station Road
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