

Material Safety Data Sheet

Isopropyl-Beta-D- Thiogalactopyranoside MSDS

Section 1 - Product and Company Identification

Trade Name: Isopropyl-Beta-D- Thiogalactopyranoside

Chemical Name: Isopropyl-Beta-D- Thiogalactopyranoside

Synonym: IPTG; Propan-2-yl 1-thio-beta-D-galactopyranoside;

CAS #: 367-93-1

EINECS #: 206-703-0

RTECS: Not available.

TSCA: TSCA 8(b) inventory. Isopropyl-Beta-D- Thiogalactopyranoside

CI#: Not available.

Chemical Formula: C₉H₁₈O₅S

Supplier: Henan Sinotech Import&Export Corporation Limited

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Section 2 – Hazards Identification

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact(irritant), of eye contact(irritant), of inhalation.

Potential Chronic Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact(irritant), of eye contact(irritant), of inhalation.

CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS:** Not available.

TERATOGENIC EFFECTS: Not available. **EVELOPMENTAL TOXICITY:** Not available.

Section 3 – Composition/Information on Ingredients

Component	% by Weight	CAS#
Isopropyl-Beta-D- Thiogalactopyranoside	100	367-93-1

Toxicological Data on Ingredients: Not available.

Section 4 – First Aid Measures

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. Cold water may be used. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5 – Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use dry chemical powder. **LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6 – Accidental Release Measure

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7 – Handling and Storage

Precautions: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Do not breathe dust.

Storage: Keep container tightly closed in a dry and well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protection: Respiratory : Government approved respirator. Hand: Chemical resistant gloves. Eye: Safety glasses.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9 – Physical and Chemical Properties

Physical State and Appearance: Solid. (powdered solid.)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 238.30 g/mole

Color: White.

pH(1% soln/water): Not available.

Boiling Point: Decomposes.

Melting Point: 123°C (253.4° F).

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility: Easily soluble in cold water.

Section 10 – Stability and Reactivity

Stability: Stable.
Instability Temperature: Not available.
Conditions of Instability: Heat, flames, ignition sources and incompatibles.
Incompatibility with various substances: Strong oxidizers.
Corrosivity: Not available.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

Section 11 – Toxicological Information

Routes of Entry: Skin contact. Eye contact. Ingestion. Inhalation.
Toxicity to Animals:
LD50:Not available. LC50:Not available.
Chronic Effects on Humans: Not available.
Other Toxic Effects on Humans:
Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Not available.

Section 12 – Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Product of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13 – Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

DOT Classification: Not a DOT controlled material.
Identification: Not available.
Special Provisions for Transport: Not available.

Section 15 - Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory : Isopropyl-Beta-D-Thiogalactopyranosid
Other Regulations: Not available.
Other Classifications:
WHMIS (Canada): Not controlled under WHMIS (Canada).
DSCL (EEC): This product is not classified according to the EU regulations.

HMIS(U.S.A):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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