

Material Safety Data Sheet

Isopropyl-Beta-D-Thiogalactopyranoside, Dioxane-Free

MSDS# 92496

Section 1 -Chemical Product and Company Identification

MSDS Name: Isopropyl-Beta-D-Thiogalactopyranoside, Dioxane-Free

Catalog Numbers: BP1755-1, BP1755-10, BP1755-100

Synonyms: .beta.-d-Galactopyranoside, 1-Methylethyl 1-Thio-

Fisher Scientific Company Identification: One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

Section 2 -Composition, Information on Ingredients

CAS#: 367-93-1

Chemical Name: Isopropyl-Beta-D-Thiogalactopyranoside

#: ca. 100 EINECS#: 206-703-0

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 -Hazards Identification

EMERGENCY OVERVIEW

Caution! The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

Section 4 -First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 -Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

General Information:

Extinguishing :

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Media:

Autoignition

Not available

Temperature:

Flash Point: Not available

Explosion Limits:

Not available

Lower:

Explosion Limits:

Not available

Upper:

NFPA Rating: health: 1; flammability: 0; instability: 0;

Section 6 -Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately,

Spills/Leaks: observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 -Handling and Storage

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation.

Avoid Handling: breathing dust, mist, or vapor. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Deep freeze (below -20..C).

Section 8 -Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA -Final PELs
Isopropyl-Beta-D-Thiogalactopyranoside	none listed	none listed	none listed

OSHA Vacated PELs: Isopropyl-Beta-D-Thiogalactopyranoside: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 -Physical and Chemical Properties

Physical State: Powder

Color: white

Odor: Not available

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 105 deg C (221.00..F)

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density:

Molecular Formula: C₉H₁₈O₅S

Molecular Weight: 238.31

Section 10 -Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials Not available

Hazardous Decomposition Products Carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization Has not been reported.

Section 11 -Toxicological Information

RTECS#: CAS# 367-93-1: None listed

LD50/LC50: RTECS: Not available.

Carcinogenicity: Isopropyl-Beta-D-Thiogalactopyranoside -Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive: No information found

Neurotoxicity: No information found

Mutagenicity: No information found

Other: The toxicological properties have not been fully investigated.

Section 12 -Ecological Information

Not available

Section 13 -Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None

listed.

Section 14 -Transport Information

US DOT

Shipping Name: Not Regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Section 15 -Regulatory Information

US Federal

TSCA

CAS# 367-93-1 is listed on the TSCA Inventory.

Health & Safety Reporting :

None of the chemicals are on the Health & Safety Reporting List.

List Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule.

Section 12b None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New

None of the chemicals in this material have a SNUR under TSCA.

Use Rule CERCLA Hazardous Substances and None of the chemicals in this material have an RQ.

corresponding RQs SARA Section 302

Extremely Hazardous None of the chemicals in this product have a TPQ.

Substances

Section 313 No chemicals are reportable under Section 313.

This material does not contain any hazardous air pollutants. This material does not contain any

Clean Air Act:

Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

Clean Water Act: None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

Isopropyl-Beta-D-Thiogalactopyranoside is not present on state lists from CA, PA, MN, MA,

STATE

FL, or NJ.

California Prop 65

California No Significant

None of the chemicals in this product are listed.

Risk Level:

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 367-93-1: Not available

Canada CAS# 367-93-1 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 367-93-1 is not listed on Canada's Ingredient Disclosure List.

Section 16 -Other Information

MSDS Creation Date: 11/21/2002

Revision #6 Date 7/12/2007

Revisions were made in Sections: 7

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

