

# **SAFETY DATA SHEET**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name Isopropyl-β-D-thiogalactopyranoside

CAS number 367-93-1

Synonyms IPTG, Isopropyl-β-D-thiogalactopyranoside (Dioxane-free)

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

## 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 2.2 GHS Label elements, including precautionary statements

Pictogram None required.

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Signal Word None required.

Hazard statements None required.

Precautionary statements

None required.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Isopropyl-β-D-	IPTG, Isopropyl-β-D-thiogalactopyranoside	367-93-1	> 98%	
thiogalactopyranoside	(Dioxane-free)	23. 00 1	. 0070	

#### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled Remove to fresh air. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin

irritation persists, call a physician.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

If swallowed Clean mouth with water and drink afterwards plenty of water. Get medical

attention if symptoms occur.

# 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

# 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

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Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical,

alcohol-resistant foam.

**Unsuitable extinguishing media**No information available.

# 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

# 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point  $> 110 \,^{\circ}\text{C} / > 230 \,^{\circ}\text{F}$ 

**Autoignition Temperature** No information available.

**Explosion limits** 

Upper No information available.Lower No information available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

### 6.2 Environmental precautions

Should not be released into the environment.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

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## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To maintain product quality: Keep refrigerated. Store under an inert atmosphere. Protect from moisture.

## Incompatibilities

Strong oxidizing agents.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

### Eye/face protection

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. Tight sealing safety goggle.

### Skin protection

Impervious gloves.

#### **Body Protection**

Wear appropriate clothing.

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### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White

Odor No information available.
Odor Threshold No information available.
pH 5-7 5% aq. solution
Melting Point/Range 105 °C / 221 °F

Boiling Point/Range No information available.

Evaporation Rate Not applicable.

Flammability (solid) No information available.

Flammability or explosive limit

Upper No information available.
Lower No information available.
Vapor Pressure No information available.

Vapor Density Not applicable.

Density No information available.

Solubility Soluble in water,

Partition coefficient; n-octanol/water

Autoignition Temp

No information available.

No information available.

No information available.

Viscosity Not applicable.

Molecular Formula C9H18O5S

Molecular Weight 238.31

VOC Content(%) No information available.

Oxidizing properties None.

## 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

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Hygroscopic.

## 10.3 Possibility of hazardous reactions

None under normal processing.

#### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moisture. Exposure to moist air or water.

## 10.5 Incompatible materials

Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Product Information, Component Information**

### **Acute toxicity**

No acute toxicity information is available for this product.

#### Skin corrosion/irritation

Irritating to skin and respiratory system.

## Serious eye damage/eye irritation

Irritating to eyes.

# Respiratory or skin sensitization

No information available.

### Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl-β-D- thiogalactopyranoside	367-93-1	Not listed				

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

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### Reproductive toxicity

No information available.

### **Chronic effects**

No information available.

### 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Do not empty into drains.

# 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

# 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

## DOT (US)

Not regulated.

**IMDG** 

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Not regulated.

### IATA

Not regulated.

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Not listed.

SARA 313 (TRI reporting)

Not listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace** 

Not regulated.

**US** state regulations

**US. Massachusetts RTK - Substance List** 

Not listed.

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US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

### **California Proposition 65**

Not listed.

## **SECTION 16: Other information**

Issue date: 09/12/2024

### **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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