

1 . PRODUCT & COMPANY IDENTIFICATION

Product Name : 100mM IPTG Solution
Product Cat No : I0356
CAS No : 367-93-1
Manufacturer/Supplier : GenDEPOT LLC
 PO Box 454
 Barker, Tx 77413
 Emergency Phone : 866.417.0078
 Fax : 281-579-6876

2 . HAZARD IDENTIFICATION

GHS Classification

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

GHS Label elements, including precautionary statements

Pictogram : None

Signal word : None

Hazard statement(s) : None.

Precautionary statement(s) : None

Hazards not other classified (HNOC) or not covered by GHS
none

3 . COMPOSITION/INFORMATION ON INGREDIENT

Synonyms : Isopropyl β -D-thiogalactoside
IPTG

Hazardous Components

Component	Classification	Concentration
IPTG		
CAS No EC No	367-93-1	2 –3 %

4 . FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air.
If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water.
Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5 . FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: Carbon oxides, nitrogen oxides (NOx)

Further information: Use water spray to cool unopened containers.

6 . ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7 . HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature:
Store between the following temperatures: 20 to 25°C (68 to 77°F).

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits : none

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment: .

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form	crystalline
Color	White, odorless

Safety data:

pH	5 to 7 (Conc. % w/w: 5%
Melting point	105 to 114 °C (221—237.2°F)
Freezing point	no data available
Boiling point	no data available
Flash point	closed cup: >110°C (>230°F)
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water solubility	0.05 g/l
Partition coefficient: n-octanol/water	-1.26
Relative vapor density	no data available
Odor	Odorless
Odor threshold	no data available
Evaporation rate	no data available

10 . STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available.

Condition to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight

Materials to avoid

Oxidizing agents

Hazardous decomposition products

No data available

11 . TOXICOLOGICAL INFORMATON

Acute Toxicity

Oral LD50

No data available

Inhalation

No data available

Dermal LD50

No data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

Information given is based on data obtained from similar substances.

Mutagenicity (Germ cell mutagenicity)

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity— single exposure (GHS)

no data available

Specific target organ toxicity— repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation

Aggravated Medical Condition

Avoid contact with sodium dodecyl sulfate solutions containing toxic materials or materials with unknown toxicological properties. Sodium dodecyl sulfate is readily absorbed through skin and may carry such materials into the body.

Additional information

RTECS :

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12 . ECOLOGICAL INFORMATION

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effect

No data available

13 . DISPOSAL CONSIDERATIONS

Disposal methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material.

14 . TRANSPORT INFORMATION**DOT(US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15 . REGULATORY INFORMATION**United States**

HCS Classification : not listed

United States Inventory (TSCA 8b) : not determined

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 : No SARA Hazards

States Regulation

Massachusetts : None of the components are listed

New York : None of the components are listed

New Jersey : None of the components are listed

Pennsylvania : None of the components are listed

California Prop. 65 Components :

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulation

Australia (AICS) : This material is listed or exempted.

China Inventory (IECSC) : This material is listed or exempted.

Japan Inventory : This material is listed or exempted.

Korea Inventory : This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.

Philippines Inventory (PICCS) : This material is listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

Taiwan inventory (CSNN): Not determined.

16 . OTHER INFORMATION**HIMS Rating:**

Health hazard : 0

Chronic Health Hazard : *

Flammability : 0

Physical hazards: 0

NFPA Rating:

Health Hazard: 0

Fire: 0

Reactivity Hazard: 0

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This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS:
GenDEPOT LLC
Safety Department