

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Substance  
Product code : IPTG005, IPTG010, IPTG025, IPTG100, IPTG250  
Trade name : IPTG DIOXANE FREE  
Synonyms : Isopropyl- $\beta$ -D-Thiogalactopyranoside  
CAS number : 367-93-1  
EC No: : 206-703-0  
Molecular Weight : 238.3 g/mol  
Molecular Formula : C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S

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

1.2.1 Relevant identified uses : For research purposes only  
1.2.2 Uses advised against No additional information available

**1.3. Details of the supplier of the safety data sheet**

Company identification : Formedium Ltd.  
King's Lynn, England, PE31 6DJ  
Tel: +44(0)1485 609069  
Web: [www.formedium.com](http://www.formedium.com)  
E-mail: [info@formedium.com](mailto:info@formedium.com)

**1.4. Emergency telephone number**

Emergency Telephone Number: Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
National Poison Information Centre : Europe UK : +44 0845 4647  
(this service is only available to health professionals)  
See [www.toxbase.org](http://www.toxbase.org) for a local poison centre

**SECTION 2 Hazards identification****2.1. Classification of the substance or mixture**

Not a dangerous substance according to GHS.

**Classification according to Regulation (EC) No 1272/2008**

Not regulated

**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008**

Hazards pictograms code : None  
Precautionary statements : None

**2.3 Other hazards**

None under normal conditions.

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 3 Composition/information on ingredients****Components** : This product is not classified as hazardous.

Substance name:	Contents	CAS No:	EC No:
Isopropyl-β-D-Thiogalactopyranoside	>= 99%	367-93-1	206-703-0

**SECTION 4 First aid measures****4.1. Description of first aid measures**

- Inhalation** : Remove person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs provide artificial respiration or oxygen by trained personnel. Loosen tight clothing. Get medical attention if symptoms occur.
- Skin contact** : : Wash with soap and plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing and clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
- Eye contact** : Check and remove any contact lenses. Flush eyes with water and copious amounts of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Ingestion** : Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed**

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

**SECTION 5 Fire-fighting measures****5.1. Extinguishing media**

**Suitable extinguishing media** : Water spray, alcohol-resistant foam, dry chemical or Carbon Dioxide.

**5.2. Special hazards arising from the substance or mixture**

**Special exposure hazard** : Carbon oxides, Sulphur oxides.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters** : Wear self contained breathing apparatus for fire fighting if necessary.

**5.4. Further information**

No data available

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 6 Accidental release measures****1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.

**2. Environmental precautions**

Avoid dispersal of spilled materials and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**3. Methods and material for containment and cleaning up**

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

**4. Reference to other sections**

For disposal see section 13.

**SECTION 7 Handling and storage****1. Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well ventilated area. Store in a cool place protected from direct sunlight.

Hygroscopic.

Recommended storage temperature: 0 – 4 Deg C

**3. Specific end use(s)**

**Specific end use(s)** : For research purposes only

**SECTION 8 Exposure controls/personal protection****1. Control parameters**

**Exposure limit values** : No additional information available.

**2. Personal Protective Equipment**

- **Eye protection** : Safety glasses. Approved and tested under appropriate government standards such as NIOSH (US) or EN 166 (EU).
- **Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.
- **Hand protection** : Handle with gloves. Gloves Use proper glove removal techniques (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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- **Respiratory protection** : Respiratory protection is not required. Where protection from nuisance levels of dust are desired use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Hygiene measures** : General industrial hygiene practice.

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 9 Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form	: Powder
Colour	: White
Odour	: No data available
Odour threshold	: No data available
pH	: 5 - 8
Melting point	: 108°C - 116°C
Boiling point	: No data available
Flash point	: No data available
Solubility in water (5% solution)	: Clear and colourless solution
Relative Density	: No data available
Vapour density	: No data available
Vapour pressure	: No data available
Partition coefficient: n-octanol / water	: log Pow : not determined
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Ignition temperature	: No data available
Decomposition temperature	: No data available
Oxidising properties	: No data available
Explosive properties	: No data available
Upper / Lower flammability or explosive limits	: No data available.
Lower explosion limit	: No data available.
Upper explosion limit	: No data available.
Viscosity	: No data available.

**9.2. Other information**

No additional information available

**SECTION 10 Stability and Reactivity****1. Reactivity**

No data available

**2. Chemical stability**

Stable under recommended storage conditions.

**3. Possibility of hazardous reactions**

No data available

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 10 Stability and reactivity****4. Conditions to avoid**

No data available

**5. Incompatible materials**

Stable under recommended storage conditions.

**6. Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. Carbon oxides, Sulphur oxides.  
Other decomposition products – No data available.

**SECTION 11 Toxicological information****11.1. Information on toxicological effects****Acute toxicity** : No data available**Skin corrosion / irritation** : No data available**Serious eye damage / eye irritation** : No data available**Respiratory or skin sensitisation** : No data available**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 as a human carcinogen by IARC.**Reproductive toxicity** : No data available**Specific target organ toxicity – single exposure** : No data available**Specific target organ toxicity – repeated exposure** : No data available**Aspiration hazard** : No data available**Potential health effects****Inhalation** : May be harmful if inhaled. May cause respiratory tract irritation.**Ingestion** : May be harmful if swallowed.**Skin** : May be harmful if absorbed through skin. May cause skin irritation.**Eyes** : May cause eye irritation.

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

**Additional information** : RTECS: Not available.**11.2. Additional Information****Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 12 Ecological information****1. Toxicity**

No data available.

**2. Persistence and degradability**

No additional information available.

**3. Bioaccumulative potential**

No additional information available.

**4. Mobility in soil**

No additional information available.

**5. Results of PBT and vPvB assessment**

No additional information available.

**6. Other adverse effects**

No data available.

**Ecological effects information** : No data available.**7. Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 13 Disposal considerations****13.1. Waste treatment methods****Product:** Offer surplus and non-recyclable solutions to a licenced waste company.**Contaminated packaging:** Dispose of as unused product.**SECTION 14 Transport information****14.1. UN Number**

Not applicable : Not classified as dangerous in the meaning of transport regulations.

**General information****2. UN Proper shipping name**

Not applicable.

**3. Transport Hazard Class(es)**

Not applicable.

**4. Packing group**

Not applicable.

**5. Environmental hazards**

Not applicable.

**6. Special precautions for user**

Not applicable.

**7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

End of document

**IPTG DIOXANE FREE****IPTG\*\*\*****SECTION 15 Regulatory information****1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

**2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16 Other information****Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Revision**

: Complete SDS revision

**End of document**