

1M IPTG Solution Material Safety Data Sheet

1. Identification of the substance/preparation and of the company/undertaking identification of the product

Product name: IPTG
Supplier: Protein Ark, UK

2. Product Identifier:

Synonyms: 1-Isopropyl- β -D-1-thiogalactopyranoside
CAS No: 367-93-1
EC No: 206-703-0q
Molecular Mass: 238.30
Formula: C₉H₁₈O₅S

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air
After skin contact: wash off with plenty of water. Remove contaminated clothing.
After eye contact: rinse out with plenty of water with the eyelid held wide open.
After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.

5. Fire-fighting measures

Suitable extinguishing media: CO₂, powder, foam, spray water.

Special risks: Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
The following may develop in event of fire: sulfur oxides, nitrogen oxides.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information: Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures:

Avoid generation of dusts; do not inhale dusts.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling: No further requirements.

Storage: Tightly closed. Dry. At -20 °C.

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: Use recommended

Protective clothing should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form: solid

Colour: off-white

Odour: odourless

pH at 100 g/l H₂O (20°C): not available

Melting point: 110-114 °C

Boiling point: not available

Ignition temperature: not available

Flash point: not available

Explosion limits lower: not available

Explosion limits upper: not available

Relative vapour density: not available

Density: not available

Bulk density: not available

Solubility in water (20 °C): soluble; clear, colourless solution

10. Stability and reactivity

Conditions to be avoided: heating

Substances to be avoided: strong oxidizing agents.

Hazardous decomposition products in the event of fire: See chapter 5.

11. Toxicological information

Acute toxicity: Quantitative data on the toxicity of this product are not available.

Further toxicological information:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data: The product should be handled with the care when dealing with chemicals.

12. Ecological information

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Further ecologic data: No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product: There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany, the Recycling and Waste Management Act (KrW-/AbfG) stipulates recycling as a requirement. This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects-in the main concerning delivery – are also governed by local authorities. Please contact the competent body (authority or waste disposal company) where you will obtain information on recycling or disposal.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol: ---

R-phrases: ---

S-phrases: ---

German regulations

Water pollution class: 1 (slightly polluting substance) (own classification)

Storage class VCI: 10-13

16. Other information

For any further information please contact Protein Ark Ltd at the following address:

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The information contained herein is based on our current knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.