

SAFETY DATA SHEET

IPTG (Isopropyl-beta-D-thiogalactopyranoside)

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	IPTG (Isopropyl-beta-D-thiogalactopyranoside)
Product number	21689530
CAS number	367-93-1
EC number	206-703-0
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of the supplicit terms of t	he safety data sheet
Supplier	Molekula Ltd. Lingfield Way, Darlington, DL1 4XX, United Kingdom +44 (0) 3302000333 info@molekula.com
1.4. Emergency telephone nu +44 (0) 1380 725952	
+44 (0) 1380 725952 SECTION 2: Hazards identific	ation
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+44 (0) 1380 725952 SECTION 2: Hazards identific <i>2.1. Classification of the subst</i> Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards <i>2.2. Label elements</i>	ation tance or mixture Not Classified Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Not Classified
+44 (0) 1380 725952 SECTION 2: Hazards identific <i>2.1. Classification of the subsi</i> Classification (EC 1272/2008) Physical hazards Health hazards Environmental hazards <i>2.2. Label elements</i> EC number	ation tance or mixture Not Classified Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Not Classified

Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements	 P261 Avoid breathing dust. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients	
3.1. Substances	
Product name	IPTG (Isopropyl-beta-D-thiogalactopyranoside)
CAS number	367-93-1
EC number	206-703-0
Chemical formula	C9H18O5S
SECTION 4: First aid measures	

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.
Skin contact	Rinse with water.
Eye contact	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important sympton	ns and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.
Ingestion	May cause irritation.
Skin contact	Redness. Irritating to skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fro	om the substance or mixture
Specific hazards	None known.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of sulphur.
5.3. Advice for firefighters	
Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid inhalation of dust. Use suitable respiratory protection if ventilation is inadequate.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills
	immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar
	and reuse, if possible. Collect and place in suitable waste disposal containers and seal
	securely. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a
	spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe ha	andling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe sto	rage, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Hygroscopic. Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.
Storage class	Chemical storage.
7.3. Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
SECTION 8: Exposure con	trols/Personal protection

8.1. Control parameters

STEL

TWA

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Eye/face protection

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Appearance	Crystalline powder.	
Colour	White/off-white.	
Odour	Almost odourless.	
Odour threshold	No information available.	
рН	pH (diluted solution): 5-7 50 g/l	
Melting point	105°C/221°F	
Initial boiling point and range	No information available.	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	No information available.	
Vapour density	No information available.	
Relative density	1.37 g/cm3	
Solubility(ies)	Soluble in water.	
Partition coefficient	log Pow: -0.257	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	
9.2. Other information		
Molecular weight	238.30	

SECTION 10: Stability and rea	activity
10.1. Reactivity	
Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous	Violent reactions possible with:
reactions	Strong oxidising agents.
10.4. Conditions to avoid	
Conditions to avoid	Protect from moisture.
10.5. Incompatible materials	
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of sulphur.
SECTION 11: Toxicological in	formation
SECTION 11: Toxicological in 11.1. Information on toxicologi	
11.1. Information on toxicologi Acute toxicity - oral	ical effects
11.1. Information on toxicolog	
11.1. Information on toxicology Acute toxicity - oral Summary Acute toxicity - dermal	ical effects Based on available data the classification criteria are not met.
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11.1. Information on toxicology Acute toxicity - oral Summary Acute toxicity - dermal Summary Acute toxicity - inhalation Summary Acute toxicity - inhalation Summary Skin corrosion/irritation Summary Serious eye damage/irritation Summary Respiratory sensitisation Summary Skin sensitisation	ical effects Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Causes skin irritation. Causes serious eye irritation. Based on available data the classification criteria are not met.

Based on available data the classification criteria are not met.

IARC carcinogenicity None of the ingredients are listed or exempt.

Summary

Reproductive toxicity		
Summary	Based on available data the classification criteria are not met.	
Specific target organ toxicity -		
Summary	May cause respiratory irritation.	
Target organs	Respiratory system, lungs	
Specific target organ toxicity -		
Summary	Based on available data the classification criteria are not met.	
Aspiration hazard Summary	Not relevant. Solid.	
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing.	
Ingestion	May cause irritation.	
Skin contact	Redness. Irritating to skin.	
Eye contact	Irritating to eyes.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Target organs	Respiratory system, lungs	
SECTION 12: Ecological information		
SECTION 12: Ecological infor	mation	
SECTION 12: Ecological infor Ecotoxicity	mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
	Not regarded as dangerous for the environment. However, large or frequent spills may have	
Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.	
Ecotoxicity <u>12.1. Toxicity</u> Acute aquatic toxicity Summary	Not regarded as dangerous for the environment. However, large or frequent spills may have	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met.	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad</u> Persistence and degradability	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad</u> Persistence and degradability <u>12.3. Bioaccumulative potentia</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.	
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the class	
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Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrad</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Based on available data the class	
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Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Chronic aquatic toxicity Summary 12.2. Persistence and degrade Persistence and degrade Persistence and degrade Bioaccumulative potential Partition coefficient 12.4. Mobility in soil	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. al No data available on bioaccumulation. log Pow: -0.257 No data available.	
Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary Chronic aquatic toxicity Summary 12.2. Persistence and degrad Persistence and degradability 12.3. Bioaccumulative potential Bioaccumulative potential Partition coefficient 12.4. Mobility in soil Mobility 12.5. Results of PBT and vPv	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. al No data available on bioaccumulation. log Pow: -0.257 No data available.	

13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

US - TSCA

Present.

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SECTION 16: Other information	
Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LCso: Lethal Concentration to 50 % of a test population. LDso: Lethal Dose to 50% of a test population (Median Lethal Dose). ECso: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Classification abbreviations and acronyms	Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure
Classification procedures according to Regulation (EC) 1272/2008	STOT SE 3 - H335: Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	17/01/2022
Revision	2
Supersedes date	03/08/2021
SDS number	280
Hazard statements in full	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.