



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 07-Feb-2023 Revision Number 1.05

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Isopro	opyl-s-D(-)-thiog	galactopyranosi	de [IPTG], from	Plants
Product Code	098-0	5321,094-0532	3,092-05324,09	98-05326	
Manufacturer	1-2 Dos Chuo-k Phone: Fax: +8	M Wako Pure Chem shomachi 3-Chome u, Osaka 540-8605, +81-6-6203-3741 1-6-6203-5964 M Waka Pure Chem	Japan		
Supplier	1-2 Dos Phone: Fax: +8	+81-6-6203-3741 1-6-6203-2029	Chuo-ku, Osaka 540	I-8605, Japan	
Emergency telephone n Recommended uses an		203-3741 / +81-3-32 earch use only	270-8571		
restrictions on use					
	•			•••	
	Section	n 2: HAZARDS	IDENTIFICATI	ON	
GHS classification <u>Classification of the substance or mixture</u> Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)					
Pictograms Signal word	None				
Hazard statements Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)					
Precautionary statements-(Prevention) • Not applicable Precautionary statements-(Response) • Not applicable Precautionary statements-(Storage) • Not applicable Precautionary statements-(Disposal) • Not applicable					
Others Other hazards					
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS					
Single Substance or Mixture Substance					
Formula	C9H180				
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Isopropyl-beta-D-thiogal actopyranoside	98.0	238.30	N/A	N/A	367-93-1

Note on ISHL No.:

* in the table means announced chemical substances.

Impurities and/or Additives:

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Not applicable

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

<u>Handling</u>

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation. **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Safe packaging material Incompatible substances

Container protected from light, and store tightly closed in freezer (-20°C). Polyethylene, Glass Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

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

Personal protective equipment **Respiratory protection** Hand protection Eye protection Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Dust mask

Protection gloves

Long-sleeved work clothes

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

protective eyeglasses or chemical safety goggles

Form

FOIIII	
Color Appearance	White - near crystalline po
Odor	no data avai
Melting point/freezing point	120-122 °C
Boiling point, initial boiling point and boiling range	no data avai
Flammability	no data avai
Evaporation rate:	no data avai
Flammability (solid, gas):	no data avai
Upper/lower flammability or	
explosive limits	
Upper:	no data avai
Lower:	no data avai
Flash point	no data avai
Auto-ignition temperature:	no data avai
Decomposition temperature:	no data avai
рН	no data avai
Viscosity (coefficient of viscosity)	no data avai
Dynamic viscosity	no data avai
Solubilities	water : solub
n-Octanol/water partition coefficient:(log Pow)	no data avai
Vapour pressure	no data avai
Specific Gravity / Relative density	no data avai
Vapour density	no data avai
Particle characteristics	no data avai

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Section 10: STABILITY AND REACTIVITY

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available no data available no data available no data available

no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Not regulated

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class

Packing group Marine pollutant	Not applicable
IMDG UN number	Not regulated
Proper shipping name: UN classfication	
Subsidiary hazard class Packing group Marina pollutant (See)	Natanaliashla
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
the IBC Code IATA	Not regulated
UN number Proper shipping name: UN classfication	-
Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	Not applicable
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	••
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	
Export Trade Control Order	Not applicable

International Inventories

Section 16: OTHER INFORMATION

sources for data etc. http://www IATA data RTECS: Japan In Dictionat	ational Institute of Technology and Evaluation (JAPAN) w.safe.nite.go.jp/japan/db.html ngerous Goods Regulations Registry of Toxic Effects of Chemical Substances dustrial Safety and Health Association GHS Model SDS y of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. I Dictionary, Kyouritsu Publishing Co., Ltd.
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Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in 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 guidance for safe handling, and is not to be considered 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 materials or in any process, unless

specified in the text. GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet