Date of issue: 07/09/2025

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Reviewed on 07/09/2025

Identification	
Tuemijieunon	
Product identifier	CFD\/A
Trade name: Isopropyl-b-D-thiogalactopyranoside (IPTG)	SLIVE
CAS Number:	serving scientists
367-93-1	
Other means of identification	
Article number: 26600	
EC number:	
206-703-0	
Application of the substance / the mixture: Laboratory chemicals	
Details of the supplier of the safety data sheet	CAN .
Manufacturer/Supplier:	\mathbf{O}
SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	0
D-69115 Heidelberg Tel.: +49 6221 13840-0	
FAX: +49 6221 13840-10	
msds.info@serva.de	
Information department: Security Department Phone: +49 6221 13840-34	
<i>Emergency telephone number:</i> <i>Emergency medical information in case of poisoning</i>	
Poison Information Center Mainz-Tel: +49 (0) 6131 19240	
(Advice in German and English)	
Hazard(s) identification Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized Syste Label elements GHS label elements Void Hazard pictograms: Void	em (GHS).
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· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description:

- *367-93-1 isopropyl-β-D-thiogalactopyranoside*
- · Identification number(s):
- EC number: 206-703-0
- · Description:
- · Empirical formula: $C_{g}H_{18}O_{5}S$
- **MW:** 238.3

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor. *After eye contact:*

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- After swallowing: Rinse out mouth. In case of complaints, consult a doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO_2 extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture
- Formation of hazardous vapors and gases possible during heating or in case of fire. In case of fire, the following can be released:
- Sulfur oxides (SOx)
- Carbon monoxide and carbon dioxide
- Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information
- Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation*
- Avoid contact with eyes and skin.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up
- Dispose contaminated material as waste according to section 13.

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Pick up mechanically.

- Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- PAC-3: Substance is not listed.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling:
- Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- *Requirements to be met by storerooms and receptacles:* Store only in the original packaging. Storage temperature: -15 to -25 °C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: This product is hygroscopic.
 Store container tightly closed and dry.
 Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- · Penetration time of glove material:
- The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Natural rubber, NR Nitrile rubber, NBR
- · Eye protection: Safety glasses
- · Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical	properties
· General Information:	
· Physical state	Solid
· Color:	white to almost white
· Odor:	Characteristic
· Odor threshold:	not determined.
• Melting point/Melting range:	105 °C (221 °F)
Boiling point/Boiling range:	No information available
Flammability:	No information available
Explosion limits:	•
Lower:	No information available
Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
pH-value:	No information available
Viscosity:	v
Kinematic:	No information available
Dynamic:	No information available
Solubility in / Miscibility with:	5
Water:	Soluble.
Partition coefficient (n-octanol/water):	No information available
Vapor pressure:	No information available
Vapor pressure:	······································
Density:	No information available
Relative density:	No information available
Particle characteristics	No information available
Other information	
Appearance:	
Form:	Powder
Important information on protection of healt environment, and on safety:	th and
Danger of explosion:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.

10 Stability and reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No further relevant information available.
- · Conditions to avoid: Avoid high temperatures, flames and sparks
- · Incompatible materials: No further relevant information available.

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• Hazardous decomposition products: In case of fire: see section 5

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification.
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.
- Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity:
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- *Bioaccumulative potential:* No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects:
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- · Waste treatment methods
- Recommendation: Dispose of in accordance with official regulations.
- · Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA

Void

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· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
Environmental hazards	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
Special precautions for user	Not applicable.
· UN ''Model Regulation'':	Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product Safety Department
- · Contact: +49 6221 13840-34
- · Date of previous version 05/02/2018
- Date of preparation 07/09/2025
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

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REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures
bw: body weight ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
US _US