

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 18 Dec 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

D-(+)-Glucose

1.1. Catalog No.:

681021

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008

2.2 Label elements

Pictograms or hazard symbols None
Signal word No signal word
Hazard statements None
Precautionary statements None

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

2.2. Label elements

2.2.1. Pictogram

2.2.2.

2.2 Label elements
Pictograms or hazard symbols None
Signal word No signal word
Hazard statements None
Precautionary statements None

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Components: D-(+)-Glucose
Percent: >98.0%(GC)
CAS RN: 50-99-7
EC-No: 200-075-1
Synonyms: D-(+)-Dextrose
Chemical Formula: C₆H₁₂O₆

3.1.1. Formula

C₆H₁₂O₆

3.1.2. Molecular Weight (g/mol)

180.16

3.1.3. CAS-No.

50-99-7

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Hygroscopic

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure controls

Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: White

Odour: No data available

pH: No data available

Melting point/freezing point: 146°C

Boiling point/range: No data available

Flash point: No data available

Evaporation rate(Butyl Acetate=1): No data available

Flammability(solid, gas): No data available

Flammability or explosive limits:

Lower: No data available

Upper: No data available

Vapour pressure: No data available.

Vapour density: No data available

Relative density: No data available

Solubility(ies):

[Water] Very soluble

[Other solvents]

Insoluble: Ether, Alcohols

Partition coefficient:

n-octanol/water: No data available

Autoignition temperature: No data available

Decomposition temperature: No data available

Dynamic Viscosity: No data available

Kinematic viscosity: No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under proper conditions.

10.3 Possibility of hazardous reactions
No special reactivity has been reported.

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Oxidizing agents

10.6 Hazardous decomposition products
Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute Toxicity: ipr-mus LD50:18000 mg/kg
orl-rat LD50:25800 mg/kg
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: dnd-hmn-oth 30 mmol/L
dnd-omi 150 mmol/L
mmo-sat 25 mg/plate (+S9)
oms-omi 1 mol/L
Carcinogenicity:
IARC = No data available
NTP = No data available
Reproductive toxicity: scu-ham TDLo:20 g/kg (6-8D preg)
ipr-rat TDLo:300 g/kg (30D pre)
orl-wmn TDLo:2 g/kg (28W preg)
ivn-wmn TDLo:2 g/kg (39W preg)
STOT-single exposure: No data available
STOT-repeated exposure: No data available
Aspiration hazard: No data available
RTECS Number: LZ6600000

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

14.1 UN number
Not listed

14.2 UN proper shipping name
ADR/RID Not listed
IMDG/IMO Not listed
ICAO/IATA Not listed

14.3 Transport hazard class(es)
ADR/RID Does not correspond to the classification standard of the United Nations
IMDG/IMO Does not correspond to the classification standard of the United Nations
ICAO/IATA Does not correspond to the classification standard of the United Nations

14.4 Packaging group
ADR/RID -
IMDG/IMO -
ICAO/IATA -

14.5 Environmental hazards
Marine pollutant -

14.6 Special precautions for user
No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Water Hazard Classes (WGK) : Class 1 - Low hazard to waters
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006
Not listed

15.2 Chemical safety assessment
A chemical safety assessment has not been carried out.

16. OTHER 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. For lab use only!