

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: GLUCOSE-1-PHOSPHATE DIPOTASSIUM SALT

CAS#: 5996-14-5

Synonym: Not Available.

Chemical Name: Glucose-1-Phosphate Dipotassium Salt

Chemical Formula: C₆H₁₁K₂O₉P.H₂O

Composition and Information on Ingredients

Name	S.K.U	% by Weight
GLUCOSE-1-PHOSPHATE DIPOTASSIUM SALT	GCS-3713	100

Hazards Identification

Classification of the substance or mixture Classification EC 67/548 or EC 1999/45: Not classified.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP): Not classified.

Label elements

Labelling EC 67/548 or EC 1999/45: Not classified.

Labelling Regulation EC 1272/2008 (CLP): Not classified.

Other hazards:

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures:

Inhalation: Assure fresh air breathing. Allow the victim to rest.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed:

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture:

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

Advice for fire-fighters:

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: For emergency responders : Equip cleanup crew with proper protection.

:Ventilate area.
Avoid breathing dust, fume, gas, mist, vapours, spray.

For non-emergency personnel :Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up:

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Handling and Storage

Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Technical protective measures prevent formation of : Provide good ventilation in process area to Vapor.

Conditions for safe storage, including any incompatibilities
Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from ignition. Direct sunlight. : Strong bases. Strong acids. Sources of

Specific end uses

Specific end use(s) : None.

Exposure Controls/Personal Protection

Exposure controls:

Personal protection: Avoid all unnecessary exposure.

- Respiratory protection: Wear approved mask.
- Hand protection: Wear protective gloves.
- Skin protection: Wear suitable protective clothing.
- Eye protection: Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

Control parameters:

Occupational Exposure Limits: No data available

Physical and Chemical Properties

Physical state at 20 °C : **Solid.**

Colour : White powder

Odour : Odorless

Odour threshold : No data available.

pH value	: Not applicable.
Molecular Weight	: 372.36 g/mole
Melting point [°C]	: No data available.
Decomposition point [°C]	: Not Available.
Critical temperature [°C]	: Not Available.
Auto-ignition temperature [°C]:	Not Available.
Flammability (solid, gas)	: Not Available.
Flash point [°C]	: Not Available.
Boiling point [°C]	: Not Available.
Initial boiling point [°C] :	Not Available.
Final boiling point [°C]	: Not Available.
Evaporation rate	: Not Available.
Vapour pressure [20°C]	: Not Available.
Vapour pressure mm/Hg :	Not Available.
Vapour density	: Not Available.
Density [g/cm ³]	: Not Available.
Relative density, gas (air=1)	: Not Available.
Relative density, liquid (water=1):	Not Available.
Solubility in water [% weight]:	Not Available.
Solubility in water	: Not Available.
Log Pow octanol / water at 20°C:	No data available.
Solubility	: Not Available.
Viscosity at 40°C [mm ² /s]	: Not Available.

Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatibility with various substances: Not available.

Materials to avoid: Strong acids. Strong bases.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Toxicological Information

Information on toxicological effects:

Acute toxicity:

- Inhalation: Based on available data, the classification criteria are not met.
 - Dermal: Based on available data, the classification criteria are not met.
 - Ingestion: Based on available data, the classification criteria are not met. Corrosion: Based on available data, the classification criteria are not met. Irritation: Based on available data, the classification criteria are not met. Sensitization: Based on available data, the classification criteria are not met. Mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.
- Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

Ecological Information

Toxicity
Toxicity information : Not established.

Persistence – degradability
Persistence - degradability : Biodegradable.

Bio accumulative potential
Bio accumulative potential : Not established.

Mobility in soil
Mobility in soil : Not established.

Results of PBT and vPvB assessment
Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Other adverse effects
Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste treatment methods

General: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Transformation Information

Land transport (ADR-RID)

General information: Not regulated.

Sea transport (IMDG) [English only]

General information: Not regulated.

Air transport (ICAO-IATA) [English only]

General information: Not regulated.

Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental regulations/legislation specific for the substance or mixture: Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.



Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

 **makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly,  will not be responsible for damages resulting from use of or reliance upon this information.**