

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Trehalose 6-phosphate dipotassium salt
PRODUCT NUMBER: T8150
COMPANY INFO: PhytoTech Labs Inc.
 14610 W 106th St. Lenexa, KS 66215
 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442
 www.phytotechlab.com
EMERGENCY PHONE NUMBER (INFOTRAC): 1-800-535-5053 - US Only
 1-352-323-3500 - International
RECOMMENDED USE: For Research Use Only
RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, in vitro diagnostics, or as household chemicals.

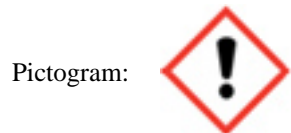
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

GHS Classification:

- H302 - Acute toxicity, oral (Category 4)
- H312 - Acute toxicity, dermal (Category 4)
- H332 - Acute toxicity, inhalation (Category 4)

GHS Label elements, including hazard and precautionary statements:



Signal Word: **Warning**

Hazard Statements:

- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled

Precautionary Statements:

- P261 - Avoid breathing dust
- P264 - Wash skin thoroughly after handling
- P301+P317 - IF SWALLOWED: Get medical help.
- P302+P352 - IF ON SKIN: wash with plenty of water
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: T6P
CAS No: 136632-28-5
Formula: C₁₂H₂₁K₂O₁₄P
Molecular Weight: 498.46 g/mol

Ingredient	CAS Number	Percent	Hazardous
Trehalose 6-phosphate dipotassium salt	136632-28-5	>95%	No exposure limits established by OSHA or ACGIH

4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water Foam Carbon Dioxide (CO2) Dry chemical powder

Special Protective Equipment and Precaution for Firefighters: Combustible. Development of hazardous gases or vapors in the event of fire
In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance. Suppress gases/vapors/mists with a water spray jet.

Hazardous Combustion Products: Carbon oxides, Phosphorous oxides, Potassium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

Environmental Precautions: Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Do not let product enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin. Avoid incompatible substances. Do not inhale. Wash thoroughly after use.

Conditions for Safe Storage: Keep it in a tightly closed container.

Incompatibilities: No data available

Recommended Storage Temperature: -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): None

Threshold Limit Values (TLVs):	None
Engineering Controls:	Handle in accordance to general industrial hygiene and safety practice.
Personal Protective Equipment (PPE):	
Eye/Face Protection:	Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.
Skin Protection:	Protective gloves
Body Protection:	Lab coat
Respiratory Protection:	Appropriate respirator

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Powder or Crystals
pH:	No data available
Solubility:	Soluble in Water
Melting Range:	No data available
Vapor Density:	No data available
Vapor Pressure:	No data available
Specific Gravity:	No data available
Odor:	No data available
Odor Threshold:	No data available
Viscosity:	No data available
Relative Density:	No data available
Evaporation Rate:	N/A
Initial Boiling Point and Boiling Range:	No data available
Flammability (solid, gas):	No data available
Partition coefficient: n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Oxidizing Properties:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use
Possibility of Hazard Reactions:	<u>Risk of Explosion with:</u> Combustible substances (paper, wool, oils), Powdered metals, Ammonium nitrate with combustible liquids
	<u>Exothermic Reaction with:</u> Reducing agents
Conditions to Avoid:	Combustible substances (paper, wool, oils),
Incompatibles Materials:	No data available
Hazardous Decomposition Products:	See Section 5

11. TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (Oral-Rat)(mg/Kg):	No data available
-----------	-------------------------------------	-------------------

LD₅₀ (Oral-Mouse)(mg/Kg): No data available

LD₅₀ (Dermal-Rat)(mg/Kg): No data available

Carcinogenicity: NTP: No
IARC: No
OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Toxicity: Single Exposure: No data available
Repeated Exposure: No data available

Routes of Entry: No data available

NIOSH/RTECS NO: EW3000000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Toxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A Hazard Class:
UN/NA: N/A
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A Hazard Class:
UN/NA: N/A
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)
Hazard Class: N/A
UN/NA: N/A
Labels: N/A

15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components: This product is not on the Massachusetts Substance List (MSL).

Pennsylvania Right to Know Components: This product is not listed on the Pennsylvania Code's Hazardous Substance List (Chapter 323).

New Jersey Right to Know Components: This product is not listed amongst the New Jersey Right to Know Hazardous Substance List

California Prop. 65 Components: This product is not known to the State of California to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

HMIS Rating:	Health Hazard	Flammability	Physical Hazard	Personal Protection
	2	0	1	B
NFPA Rating:	Health Hazard	Fire Hazard	Instability	Special Hazard
	2	0	1	OX

PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Revision Date: 13 January 2024