Material Safety Data Sheet

Revision: 11/15/2004

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS)

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME:
D-Glucose-6-Phosphate, Barium Salt, Heptahydrate

PRODUCT CODE:
16170

EEC NUMBER:
None

SUPPLIER:
USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128 Phone: (216) 765-5000
Please visit our website at **www.usbweb.com** for contact information on USB product distributors within your area.

Emergency Contact:
Chemtrec (800) 424-9300
Outside USA & Canada 703 527 3887

COMPOSITION/ HAZARDOUS COMPONENTS

HAZARD	CAS NO.	%WT	TLV	CHIP R & S Phrases
D-Glucose-6-Phosphate, Barium Salt, Heptahydrate	58823-95-3	~100%	—	R:20/22 Harmful by inhalation and if swallowed. S:28 After contact with skin, wash immediately with plenty of water.

HAZARDS IDENTIFICATION

CHIP
Harmful
HCS
Irritant

FIRST-AID MEASURES

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.
SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.
INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.
INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Emits toxic fumes under fire conditions.
Flash Point = No data available.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

HANDLING AND STORAGE

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Store at -20°C away from incompatible materials.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
Vapor Pressure: No data available
Solubility (Water): No data available
Percent Volatile: No data available
Chemical formula: C6-H11-Ba-O9-P·7H2O

Boiling Point: No data available
Vapor Density: No data available
Specific Gravity: No data available
Evaporation Rate: No data available

STABILITY AND REACTIVITY

Product is stable. Hazardous decomposition products include carbon and phosphorous oxides and/or phosphine. Incompatible with strong oxidizing agents. Hazardous polymerization will not occur.

MSDS information may be continued on back of page.

TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE: To the best of our knowledge the chemical, physical and toxicological properties for this material have not been thoroughly investigated.
EYES: Contact may cause irritation and slight corneal injury.
SKIN: May be harmful if absorbed through the skin. Contact may cause irritation and/or allergic reaction.
INHALATION: Harmful if inhaled. May cause irritation to mucous membranes and upper respiratory tract.
INGESTION: Harmful if swallowed. Chronic ingestion or excessive dosage may cause irritation of the mouth, throat, esophagus and gastrointestinal tract.
ADDITIONAL INFORMATION:
TARGET ORGAN(S): Heart, Nerves, Kidneys, G.I. System, Bone Marrow, Spleen, and Liver.
Ingestion of soluble barium compounds may cause gastroenteritis, muscular paralysis, contractions of the smooth, striated and cardiac muscles, vomiting, diarrhea, slow irregular pulse and hypertension.
RTECS: No data available.
Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION

No information available.

DISPOSAL CONSIDERATIONS

Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION

US DOT / IATA: No applicable information.

REGULATORY INFORMATION

RCRA - No applicable information.
SARA 302 - No applicable information.
SARA 313 - This product is subject to SARA section 313 reporting requirements - barium compounds.
EPA TSCA Section 8(b) - This chemical substance is **NOT** specifically listed on the EPA TSCA Inventory. It is supplied for research and development use only, by or directly under the supervision of technically qualified individuals. **NOT** for manufacturing or commercial purposes.
Exposure Limits - Not established.
California Proposition 65 - No applicable information.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.