Material Safety Data Sheet
Revision: 02/13/2006

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: PrepEase™ His-Tagged Protein Purification Mini Kit - High Yield
PrepEase™ His-Tagged Protein Purification Midi Kit - High Yield
PrepEase™ His-Tagged Protein Purification Maxi Kit - High Yield

PRODUCT CODE: 78800 / 78801
78802 / 78803
78804 / 78805

EEC NUMBER: 206-019-2 (Imidazole)

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
---|---|---|---|---
Imidazole (Elution Buffer) | 288-32-4 | ~7% | | R:36/37/38 Irritating to eyes, respiratory system and skin. S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S:36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S:45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

HAZARDS IDENTIFICATION

CHIP
Irritant

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. NFPA Rating: H=1 F=0 R=0.
Flash Point (Pure Imidazole) = 145°C (Closed Cup). Autoignition Temperature (Pure Imidazole) = 480°C.

ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, 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 goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Store ambient away from incompatible materials.

PERSONAL PROTECTION

Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, 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. HMIS Rating: H=1 F=0 R=0.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Kit containing columns and buffers
Vapor Pressure: No data available
Solubility (Water): Soluble
Percent Volatile: No data available
Chemical Formula: Kit
Boiling Point: No data available
Vapor Density: No data available
Specific Gravity: No data available
Evaporation Rate: No data available

MSDS information may be continued on back of page.
STABILITY AND REACTIVITY  
Product is stable. Hazardous decomposition products may include carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides and ammonia. Incompatible with strong oxidizing agents, alkalis, acids and acid anhydrides. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION  
EFFECTS OF OVEREXPOSURE:
EYES: Contact causes irritation.
SKIN: Contact causes irritation.
INHALATION: Material is irritating to mucous membranes and upper respiratory tract.
INGESTION: Ingestion may cause severe irritation to the mouth, throat, esophagus and gastrointestinal tract.
ADDITIONAL INFORMATION:
May be harmful by inhalation, ingestion or skin absorption. May cause irritation and/or burns to the eyes, respiratory system and skin. For Imidazole: Laboratory experiments have resulted in mutagenic effects. May cause adverse reproductive effects. Animal evidence suggests that fetotoxicity and teratogenicity may be observed at doses that also cause harm in the mothers.
Reproductive effects, mutation and toxicity data for Imidazole listed in RTECS under NI3325000. Only select RTECS information is provided here. Please see actual RTECS entry for complete information.
Oral Rat LD50 = 220 mg/kg (Warsaw, Poland - 1993). Details of toxic effects not reported other than lethal dose value.
Definitions: 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 - This material does not have an RQ or TPQ.
SARA 313 - This material is not reportable under 313.
EPA TSCA Section 8(b) - Imidazole: Chemical Inventory.
8(d) - Imidazole: unpublished health/safety studies.
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.