Material Safety Data Sheet
Revision: 02/01/2006

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™ Gel Extraction Kit
PRODUCT CODE: 78755 / 78756 / 78757
EEC NUMBER: 209-812-1 (Guanidine Thiocyanate)

SUPPLIER: USB Corporation, 26111 Miles Road, Cleveland, Ohio 44128   Phone: (216) 765-5000

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

Please visit our website at www.usbweb.com for contact information on USB product distributors within your area.

COMPOSITION/HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>CAS NO.</th>
<th>%WT</th>
<th>TLV</th>
<th>CHIP R &amp; S Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guanidine Thiocyanate (NT Buffer)</td>
<td>593-84-0</td>
<td>&lt;30%</td>
<td>—</td>
<td>R:20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R:32 Contact with acids liberates very toxic gas. S:13 Keep away from food, drink and animal feeding stuffs.</td>
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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.
ANTIDOTE: Always have a cyanide antidote kit on hand when working with cyanide compounds. Obtain medical advice on proper use.

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 ambient 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: Kit containing vials of solution
Boiling Point: No data available
Vapor Pressure: No data available
Vapor Density: No data available
Solubility (Water): Soluble
Specific Gravity: No data available
Percent Volatile: No data available
Evaporation Rate: No data available
Chemical Formula: Kit

STABILITY AND REACTIVITY

Product is stable. Hazardous decomposition products include hydrogen cyanide, ammonia, and oxides of carbon, nitrogen and sulfur. Incompatible with iron, strong acids and strong oxidizing agents. Heating to decomposition or contact with acids or acid vapors can liberate poisonous cyanide vapors. Hazardous polymerization will not occur.

MSDS information may be continued on back of page.
TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:
EYES: Contact may cause irritation and slight corneal injury.
SKIN: Harmful if absorbed through skin. If absorbed, may cause symptoms similar to those for ingestion. Contact may cause irritation and/or allergic reaction.
INHALATION: Harmful if inhaled. May cause similar effects as those described under ingestion. May cause irritation to mucous membranes and upper respiratory tract. Exposure to low and even unmeasurable isocyanate concentration may result in sensitization.
INGESTION: Harmful if swallowed. Chronic ingestion or excessive dosage may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea. Ingestion of thiocyanates may also cause disorientation, weakness, low blood pressure, confusion, psychotic behavior, muscular spasm, convulsions and possibly death.
TARGET ORGAN(S): Kidneys, CNS, Liver, Lungs and Cardiovascular System.
ADDITIONAL INFORMATION:
May cause liver and kidney damage. May cause lung damage. May cause central nervous system depression. Repeated or prolonged exposure may cause allergic reactions in sensitive individuals. Inhalation may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.
Toxicity data listed for Guanidine Thiocyanate in RTECS under XL1225000.
Intraperitoneal Mouse LD50 = 300 mg/kg. Details of toxic effects not reported other than lethal dose value.
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 - This material does not have an RQ or TPQ.
SARA 313 - This material is not reportable under 313.
EPA TSCA Section 8(b) - For Guanidine Thiocyanate: Chemical Inventory.
Exposure Limits - Not established.
California Proposition 65 - No applicable information.

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