Material Safety Data Sheet
Revision: 04/13/2009

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: Poly(A) Tail-Length Assay Kit
PRODUCT CODE: 76450
EEC NUMBER: None

SUPPLIER:
USB Products - Affymetrix, Inc., 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

HAZARD | CAS NO. | %WT | TLV | CHIP R & S Phrases
--- | --- | --- | --- | ---
For Component 76463:
Tris-HCl | 1185-53-1 | ~3.9% | — | R:36/37/38 Irritating to eyes, respiratory system and skin.
Potassium Chloride | 7447-40-7 | ~2.8% | — | S:23 Do not breathe vapour.
S:24/25 Avoid contact with skin and eyes.
S:36/37 Wear suitable protective clothing and gloves.
For Component 71195:
Tris-HCl | 1185-53-1 | >1% | — | R:36/37 Irritating to eyes, respiratory system and skin.
Potassium Chloride | 7447-40-7 | >1% | — | S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S:36/37 Wear suitable protective clothing and gloves.
For Component 76465:
Potassium Chloride | 7447-40-7 | ~1.9% | — | See information above.
For Components 76461 and 76464:
Glycerol | 56-81-5 | ~50% | — | R:36/37/38 Irritating to eyes, respiratory system and skin.
For Component 76460:
Tris-HCl | 1185-53-1 | ~1.6% | — | S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Glycerol | 56-81-5 | ~25% | — | S:36/37 Wear suitable protective clothing and gloves.
For Component 75788:
HeLa Total RNA | N/A | ~100% | — | No applicable information.

HAZARDS IDENTIFICATION

CHIP Biohazard; Irritant
HCS Biohazard; 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. For Glycerol: Contact with strong oxidizing agents may produce an explosion.
Explosion Limits for Glycerol = Lower - 1.1; Upper - Not available.
Flash point for Glycerol = 193°C (379.4°F); Autoignition temperature for Glycerol = 400°C (752°F).

ACCIDENTAL RELEASE MEASURES

Caution: Catalog# 75788 is isolated from human sources. Handle all products prepared from human sources as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wash thoroughly after handling. Observe universal precautions when working with this product. Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved (or equivalent) respirator appropriate for the hazard. Contain the spill with an inert absorbent and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

MSDS information may be continued on back of page.
HANDLING AND STORAGE
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PERSONAL PROTECTION
Caution: Catalog# 75788 is isolated from human sources. Handle all products prepared from human sources as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wash thoroughly after handling. Observe universal precautions when working with this product. 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

Appearance: Kit containing vials of solutions
Boiling Point: No data available
Vapor Pressure: No data available
Solubility (Water): All components are soluble
Percent Volatile: No data available
Chemical Formula: Not applicable

STABILITY AND REACTIVITY
Product is stable under normal conditions. Avoid prolonged excessive heat which may cause decomposition. Store away from strong bases, strong acids, and strong oxidizing agents. Hazardous decomposition products may include carbon oxides. Hazardous polymerization will not occur. For Glycerol: Avoid strong oxidizing agents including mixtures with hydrogen peroxide, potassium permanganate, trifluorobromide, calcium hypochlorite, nitric acid, sulfuric acid, perchloric acid and lead oxide. Contact with Sodium Hypochlorite and Hypochlorous acid may cause an explosion.

TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE:
EYES: Contact may cause irritation.
SKIN: Contact may cause redness, swelling and pain at any site, especially mucous membranes.
INHALATION: Excessive inhalation of vapor may cause irritation, cough and shortness of breath.
INGESTION: Ingestion or excessive exposure may lead to nausea, vomiting and diarrhea. Large amounts may cause weakness, collapse and coma.
TARGET ORGANS: Eyes and Skin.
ADDITIONAL INFORMATION:
Potassium Chloride: Irritation, mutation and toxicity data listed in RTECS under TS8050000.
   Irritation data: Eye Rabbit 500 mg/24H = Mild (1972).
   Toxicity data: Oral Rat LD50 = 2600 mg/kg (1972).
   Laboratory experiments have resulted in mutagenic effects.
Glycerol: Irritation, mutation, reproductive effects and toxicity data listed in RTECS under MA8050000.
   Irritation data: Eye Rabbit 500 mg/24H = Mild (1986). Skin Rabbit 500 mg/24H = Mild (1986).
   Toxicity data: Oral Rat LD50 = 12600 mg/kg (1945). Inhalation Rat LC50 = >570mg/m3/1H (1970).
CAUTION: Catalog# 75788 is isolated from human sources. Handle all products prepared from human sources as if they were capable of transmitting infectious agents. Avoid accidental inoculation, intravenous injection or contact with open wounds. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe universal precautions when working with this product.
Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.
   ACGIH = American Conference of Governmental Industrial Hygienists.
   OSHA = Occupational Safety and Health Administration.

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 - No applicable information.
EPA TSCA Section 8(b) - For Glycerol, Tris-HCl, and Potassium Chloride: Chemical Inventory. Exposure Limits - For Glycerol: ACGIH TLV-TWA 10 mg/m3 (total particulate). OSHA PEL TWA: 15 mg/m3 (total dust).
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.