SECTION I NAME

Product: Xylene (Mixed Isomers)

Chemical Synonyms: Xylo, Dimethyl Benzene

Formula: C₈H₈(CH₃)₂

Unit Size: up to 20 Lt.

C.A.S. No.: 1330-20-7 (Mixed Isomers)

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s) % TLV Units

Xylenes; a mixture of ortho-, meta-, and para-xylene 80-90% TWA: 100 ppm

Ethylbenzene: (CAS No. 100-41-4) 10-20% TWA: 100 ppm

SECTION III PHYSICAL DATA

Melting Point (°F) N/A

Boiling Point (°F) 139-141°C (283-286°F)

Vapor Pressure (mm Hg) 6 @ 20°C (68°F)

Vapor Density (Air=1) 3.7

Solubility in Water Negligible.

Appearance & Odor Clear, colorless liquid; aromatic odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in Air % by Volume

Flame Point (Method Used) 27-32°C (80-90°F) TCC

Specific Gravity (H₂O = 1) 0.87 @ 15°C (60°F)

flash point 0.7

Critical Temperature 139-141°C (283-286°F)

Decomposition Temperature 200°F

Ignition Temperature: 463°C-527°C (867°F-982°F) ASTM D 2155.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Xylene: TWA: 100 ppm STEL: 150 ppm

Ethyl benzene: TWA: 100 ppm STEL: 125 ppm (ACGIH 2001)

Effects of Overexposure

ACUTE TOXICITY: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea and loss of consciousness.

INHALATION: High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes.

INGESTION: Liquid ingestion may result in vomiting; aspiration (breathing in) of liquid into lungs must be avoided as liquid contact with lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage.

EYE CONTACT: Causes irritation. Skin Contact: May cause irritation and dermatitis. Target organs: Liver, kidneys, heart, central nervous system.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability Unstable Conditions to Avoid Excessive temperature, sparks, flame.

Incompatibility (Materials to Avoid) Oxidizing materials, acids.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unidentified organic may be formed during combustion.

Hazardous Polymerization Conditions to Avoid May Occur Will Not Occur Conditions to Avoid Not applicable

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case of a spill Use proper safety equipment. Ventilate area, eliminate all ignition sources. Absorb in vermiculite, sand, earth or sawdust and incinerate. Flush spill area with water. Collect waste for disposal by incineration.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Respiratory Type) In the laboratory work in ventilation hood. If necessary, wear a NIOSH/MSHA-approved atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Ventilation Local Exhaust Recommended Special No.

Other Protective Equipment Goggles, lab coat, apron, proper gloves, fire extinguisher, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool place away from oxidizing materials and fire hazards. Store in a well-ventilated area. Wash thoroughly after handling.

Other Precautions Keep container tightly closed when not in use.

Use adequate ventilation. Keep away from heat, flame and sparks. Avoid inhalation of vapors, mist or fumes. Remove and wash contaminated clothing.

D.O.T. Xylenes, 3, UN1307, PG III, Ltd Qty ≤ 5 Lt

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Revision No. 9 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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