



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: XX0020
Effective Date: March 24, 2005

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

Product	Xylene (Mixed Isomers)
Chemical Synonyms	Xylol, Dimethyl Benzene
Formula	C ₆ H ₄ (CH ₃) ₂
Unit Size	up to 20 Lt.
C.A.S. No.	1330-20-7 (Mixed Isomers)

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	2	Fire	3	Reactivity	0
	Health	2						
Fire	3							
Reactivity	0							
		HMIS * 0 1 2 3 4						

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Xylenes; a mixture of ortho-, meta-, and para-xylenes	80-90%	TWA: 100 ppm
Ethylbenzene: (CAS No. 100-41-4)	10-20%	TWA: 100 ppm

DANGER! FLAMMABLE! HARMFUL OR FATAL IF SWALLOWED.

CAUSES SKIN AND EYE IRRITATION. VAPOR HARMFUL.

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H ₂ O = 1)	0.87 @ 15°C (60°F)
Boiling Point (°F)	139-141°C (283-286°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	6 @ 20°C (68°F)	Evaporation Rate (n-Butyl acetate = 1)	0.7
Vapor Density (Air=1)	3.7		
Solubility in Water	Negligible.		
Appearance & Odor	Clear, colorless liquid; aromatic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	27-32°C (80-90°F) TCC	Flammable Limits in Air % by Volume	Lower	Upper
			1.0%	7.0%
Extinguisher Media	Foam; carbon dioxide (CO ₂); dry chemical.			

SPECIAL FIREFIGHTING PROCEDURES

Do not use a direct stream of water, material will float and can be reignited on surface of water. In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Water spray may be used to reduce the rate of burning and for cooling containers.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 130)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Moderate fire hazard in the presence of heat or flame; can react with oxidizing materials. Flammable liquid which gives off flammable vapors at or near normal temperatures. Vapors form explosive mixtures with air. Vapor is heavier than air and may travel a considerable distance to a source if ignition and flash back. Toxic vapors in high concentration are anesthetic. Irritant to skin and upper respiratory system.

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

D.O.T. Xylenes, 3, UN1307, PG III

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

SECTION V HEALTH HAZARD DATA

XX0020

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	X	Conditions to Avoid	Excessive temperature, sparks, flame.
	Stable			

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	Not applicable.
		X

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled 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 (Specify 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.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves Rubber, Vitron. **Eye Protection** Chemical safety glasses.

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 Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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

Revision No. 9	Date 03/24/05	Approved Michael Raszeja	Chemical Safety Coordinator MR
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