



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. XX 20
Effective Date June 2, 1999

SECTION V HEALTH HAZARD DATA

XX 20

Threshold Limited Value
Xylene: TWA (ACGIH 1992-93) 100 ppm (air); 434 mg/m³ (air). STEL: 150 ppm (651 mg/m³).
Ethyl benzene: TWA 100 ppm (air); 434 mg/m³ (air) STEL: 125 ppm; 543 mg/m³.

Effects of Overexposure
TARGET ORGANS AFFECTED: Liver, kidneys, central nervous system. **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.

Emergency and First Aid Procedures
INGESTION: If swallowed, do NOT induce vomiting, call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Wash with soap and water. Remove contaminated clothing and do not reuse until laundered. If persistent 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, heat, sparks, flame.
	Stable	X		

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.
	May Occur	Will Not Occur	
		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.
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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.
Keep container tightly closed when not in use.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.

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

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 5	Date 6/2/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	XYLENE (MIXED ISOMERS)	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <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>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	3	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	3																	
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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)																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Xylenes; a mixture of ortho-, meta-, and para-xylenes	83%	See Section V.
Ethylbenzene: (CAS No. 100-41-4)	17%	See Section V.

DANGER! FLAMMABLE! HARMFUL OR FATAL IF SWALLOWED.

CAUSES SKIN AND EYE IRRITATION. VAPOR HARMFUL.

SECTION III PHYSICAL DATA

Melting Point (°F)	18°C (-4°F)	Specific Gravity (H ₂ O = 1)	0.864 at 20°/4°C
Boiling Point (°F)	138.5°C (282°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	6.06 @ 25°C	Evaporation Rate (Butyl Acetate =1)	0.8 @ 25°C
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°C (80°F) TCC	Flammable Limits in Air % by Volume	Lower	Upper
			1.0%	7.0%

Extinguisher Media
Foam; carbon dioxide (CO₂); dry chemical.

SPECIAL FIREFIGHTING PROCEDURES

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, UN 1307, PG III

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