



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. MM 592  
Effective Date April 1, 1999

## SECTION V HEALTH HAZARD DATA

MM 592

**Threshold Limited Value** ACGIH (TLV): TWA = 50 ppm, 269 mg/m<sup>3</sup>; STEL = 200 ppm, 1070 mg/m<sup>3</sup>.  
OSHA (PEL): TWA = 100 ppm, OSHA (PEL): Ceiling 200 ppm.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Liver, central nervous system, kidneys. **INHALATION:** Can irritate nose and throat with dizziness, drowsiness, headache, nausea, unconsciousness and even death; resulting from exposure. **EYES:** Irritation and lachrymation can result from exposure to vapor or liquid. **SKIN:** Causes irritation and dermatitis. **INGESTION:** Causes irritation to the digestive tract and may cause nausea and rapid drowsiness, partial paralysis, unconsciousness and kidney failure in severe cases.

**Emergency and First Aid Procedures** **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep at rest and warm. Call physician immediately; advise physician not to give adrenalin. **INGESTION:** Get immediate medical help! Do **NOT** induce vomiting **UNLESS** directed by physician. (Authorities differ; professional decisions required). Physician should be warned **NOT TO USE** adrenalin for treatment. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Contact with sodium hydroxide, potassium hydroxide or other strong alkali to form explosive mixtures of chloroacetylenes. Soda ash does not react. Oxidizing materials.

**Hazardous Decomposition Products** When exposed to high temperature, hydrogen chloride and phosgene (highly toxic) can be produced.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>	
	X	Polymerization of TCE is catalyzed by aluminum chloride, magnesium or aluminum powder can react with TCE.

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. Using proper safety equipment (good ventilation, proper gloves); mop, wipe or soak up with absorbent materials. Evaporate outdoors or in exhaust hood. Place absorbed waste in closed container for disposal by incineration. Do not allow to enter water supply sources.

**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 equipped with an afterburner and scrubber or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** If needed, wear a NIOSH/MSHA approved self-contained breathing apparatus or respirator containing organic vapor cartridge. Work in ventilation hood or well-ventilated area.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>Adequate to maintain below exposure limit.</b>

<b>Protective Gloves</b>	Neoprene, vitron.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Goggles, lab coat, apron, ventilation hood, proper gloves, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, well-ventilated area and use with adequate ventilation. 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 only in well-ventilated area. Avoid prolonged breathing of vapor. Avoid contact with eyes and skin. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 4	<b>Date</b> 4/1/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b>	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

<b>Product</b>	MOLD RELEASE COMPOUND	 <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>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	1	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	1																	
Reactivity	0																	
<b>Chemical Synonyms</b>	Mold Release Compound																	
<b>Formula</b>	Mixture.																	
<b>Unit Size</b>	up to 30 mL.																	
<b>C.A.S. No.</b>	Mixture.																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Trichloroethylene: (CAS No. 79-01-6)	75%	See Section V.
Beeswax: (CAS No. 8012-89-3)	25%	None listed.

**WARNING! VAPOR HARMFUL. MAY BE HARMFUL IF**

**SWALLOWED. \* NOTE: SUSPECTED CARCINOGEN.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Approx. 40-50°C (104-122°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.4 @ 25°C
<b>Boiling Point (°F)</b>	87.1°C (188°F) Trichloroethylene	<b>Percent Volatile by Volume (%)</b>	75%
<b>Vapor Pressure (mm Hg)</b>	58 mm @ 20°C	<b>Evaporation Rate (CCl<sub>4</sub> = 1)</b>	0.69
<b>Vapor Density (Air=1)</b>	4.53 (Trichloroethylene)		
<b>Solubility in Water</b>	0.1% in water @ 25°C		
<b>Appearance &amp; Odor</b>	White to yellow color gel; chloroform-like odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume TCE @ 25°C</b>	Lower 8%	Upper 10.5%
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**Extinguisher Media** Carbon dioxide (CO<sub>2</sub>); dry chemical (ABC); water spray.

## SPECIAL FIREFIGHTING PROCEDURES

The beeswax content is a combustible material. Trichloroethylene is normally considered non-combustible. However, when 15% vapor in air at 33°C is exposed to intense heat (electric arc) or to ordinary flame at vapor-air temperatures exceeding 50°C, it can be made to burn mildly. Combustibility increases in oxygen-enriched air. In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous when heated to combustion; it emits highly toxic and corrosive fumes (phosgene and hydrogen chloride), reacts with strong oxidizing materials.

Autoignition Temperature: Trichloroethylene is 420°C (788°F).

D.O.T. NON-REGULATED.

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