



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 390  
Effective Date October 22, 1998

## SECTION V HEALTH HAZARD DATA

CC 390

**Threshold Limited Value** TWA (Computed): 152 ppm or 421 mg/m<sup>3</sup> (Air).  
Data for computation taken from ACGIH 1992-93.

**Effects of Overexposure** **DANGER! EXTREMELY FLAMMABLE!** Inhalation of fumes of high concentration causes narcosis, unconsciousness, damage to the nervous system, blood and kidneys. Vapor irritating to the eyes, nose and throat. Death may occur due to respiratory paralysis. Liquid irritating to the eyes. Exercise appropriate procedures to minimize potential hazards.

**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:** Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention. **INGESTION:** If swallowed, if conscious, give water to drink. Call physician immediately. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Heat, sparks, ignition sources, evaporation.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Acids, strong oxidizers, strong bases, and selected amines.

**Hazardous Decomposition Products** Oxides of nitrogen and carbon, Hydrogen cyanide.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>		Not applicable.
	<b>May Occur</b>	<b>Will Not Occur</b>	
		X	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Wear suitable protective clothing and adequate ventilation. Eliminate all sources of ignition. Absorb with sand or other absorbent material and place into proper container for disposal.

**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.

Small quantities, ignite in small porcelain dish. Large quantities dispose of in an approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** Work in ventilation hood. If high concentrations of fumes prevail, wear a NIOSH/MSHA-approved respirator fixed with canister for organic vapors.

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

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

**Other Protective Equipment** Safety glasses, smock, apron, vented hood, proper gloves, fire extinguisher, eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Keep tightly closed, do not allow to evaporate. Store under same conditions as Ethyl Ether in a well-ventilated area, away from any ignition source.  
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.  
If material has evaporated to dryness, treat as cellulose nitrate. **CAUTION:** May be explosive! Avoid contact with heat, sparks, flames or other sources of ignition. Avoid inhalation of vapors. 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> 10/22/98	<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>	COLLODION, FLEXIBLE	 <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 * Health 2 Fire 4 Reactivity 1</p>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
<b>Chemical Synonyms</b>	Celloidin											
<b>Formula</b>	Mixture. See Section II.											
<b>Unit Size</b>	up to 4 Lt.											
<b>C.A.S. No.</b>	Mixture. See Section II.											

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Pyroxylin (nitrocellulose): (CAS No. 9004-70-0); Explosive	4%	None established.
Ethyl Ether: (CAS No. 60-29-7) approx. by volume; flammable	70%	400 ppm; 1,200 mg/m <sup>3</sup>
Ethyl Alcohol: (CAS No. 64-17-5) approx. by volume; flammable	24%	1000 ppm; 1,900 mg/m <sup>3</sup>
20 grams of Camphor: (CAS No. 464-49-3) and 30 grams of Castor Oil: (CAS No. 8001-79-4) per 1000 grams of above.		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	-116°C (-177°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	0.77 at 20°C
<b>Boiling Point (°F)</b>	Range 34°-78°C (94°-173°F)	<b>Percent Volatile by Volume (%)</b>	96%
<b>Vapor Pressure (mm Hg)</b>	44.2	<b>Evaporation Rate (n-Butyl acetate = 1)</b>	Less than 1.
<b>Vapor Density (Air=1)</b>	Ether 2.55		
<b>Solubility in Water</b>	Insoluble in water.		
<b>Appearance &amp; Odor</b>	Clear or slight opalescent, syrupy liquid; odor of ethyl ether.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	-45°C (-49°F) TCC	<b>Flammable Limits in Air % by Volume (Ether)</b>	Lower 1.9%	Upper 48%
<b>Extinguisher Media</b>	"Alcohol" foam; carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC).			

**SPECIAL FIREFIGHTING PROCEDURES** Treat as Ether fire. In fire conditions, wear a NIOSH/MSHA-approved breathing apparatus. Keep work area free of hot metal surfaces and other sources of ignition. Water may be helpful in keeping adjacent containers cool; however, avoid spreading burning liquid with water used for cooling purposes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 127)

**UNUSUAL FIRE AND EXPLOSION HAZARDS** Vapor-air mixtures are explosive above flash point. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. Can explode if Ether evaporates and forms peroxide. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

Autoignition Temperature: 170°C (338°F)

D.O.T. NITROCELLULOSE, SOLUTION, FLAMMABLE, 3, UN 2059, PG II

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