



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. HH 230  
Effective Date October 2, 1995

## SECTION V HEALTH HAZARD DATA

HH 230

**Threshold Limited Value** Cellulose: 15 mg/m<sup>3</sup> TWA (total dust), OSHA; 5 mg/m<sup>3</sup> TWA (respirable dust), OSHA; 10 mg/m<sup>3</sup> TWA, ACGIH.

**Effects of Overexposure** **INGESTION:** None known. **SKIN:** None known. **INHALATION:** May cause irritation of the respiratory tract. May aggravate asthma and inflammatory or fibrotic pulmonary disease. **EYES:** May cause irritation and redness of the conjunctiva.

**Emergency and First Aid Procedures** **INGESTION:** If swallowed, if conscious, give two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>
	<b>Stable</b>	X	

**Incompatibility (Materials to Avoid)** None known.

**Hazardous Decomposition Products** Carbon monoxide and/or carbon dioxide.

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

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Material will absorb moisture and become slippery.

**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 chemical landfill in accordance with local, state and federal regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** Use a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	No.

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

**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry area away from ignition sources. Static ignition hazard can result from handling and use. 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.

Avoid breathing dust. Use with adequate ventilation. 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. 1	<b>Date</b> 10/2/95	<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>	HYDROXYETHYL CELLULOSE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177  <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4  <b>HMIS *</b> HEALTH FIRE REACTIVITY 0 0 0
<b>Chemical Synonyms</b>	Hydroxyethyl Cellulose	
<b>Formula</b>	[(C <sub>6</sub> H <sub>9</sub> O <sub>5</sub> )(C <sub>2</sub> H <sub>4</sub> O) <sub>x</sub> H] <sub>n</sub>	
<b>Unit Size</b>	up to 180 Kg.	
<b>C.A.S. No.</b>	9004-62-0	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Hydroxyethyl Cellulose: (CAS No. 9004-62-0)	85.5% min	See Section V.
Sodium Acetate: (CAS No. 127-09-3)	7.5% max	None established.
Water: (CAS No. 7732-18-5)	5.0% max	None established.
Cellulose: (CAS No. 9004-34-6)	1.5% max	None established.
Glyoxal: (CAS No. 107-22-2)	0.5% max	None established.

**CAUTION! CAUSES IRRITATION TO EYES AND RESPIRATORY TRACT.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Decomposes above 200°C (392°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Not applicable.
<b>Boiling Point (°F)</b>	Not applicable.	<b>Percent Volatile by Volume (%)</b>	5.0
<b>Vapor Pressure (mm Hg)</b>	Unknown.	<b>Evaporation Rate ( = 1)</b>	Not applicable.
<b>Vapor Density (Air=1)</b>	Unknown.		
<b>Solubility in Water</b>	99.2 - 100%		
<b>Appearance &amp; Odor</b>	White powder; mild characteristic odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	<b>Small fires:</b> Carbon dioxide or dry chemical. <b>Large fires:</b> Alcohol-type or all-purpose-type foam.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Avoid dispersion of dust in the air to reduce potential for dust ignition/rapid burning. Dust is easily ignited; avoid ignition sources. All metal parts and equipment should be properly bonded and grounded. In the presence of flammable gases, liquids or vapors, handle in inert nitrogen-blanketed equipment.

Autoignition Temperature: 400°C (752°F) ASTM

D.O.T. NON-REGULATED.

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