MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
1533 W.Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. AA 19
Effective Date January 12, 1999

SECTION I NAME

Product	ACETIC ANHYDRIDE
Chemical Synonyms	Acetic oxide, Acetyl oxide
Formula	$C_4H_6O_3$
Unit Size	up to 2.5 Lt.
C.A.S. No.	108-24-7

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *	
Health	3
Fire	2
Reactivity	2

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Acetic Anhydride	100%	See section v

DANGER! CORROSIVE! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES BURNS. HARMFUL LIQUID. COMBUSTIBLE.

SECTION III PHYSICAL DATA

Melting Point (°F)	-73°C (-100°F)	Specific Gravity (H_2O = 1)	1.082
Boiling Point (°F)	138-140°C (280-284°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	4mm @ 20°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	3.5		
Solubility in Water	Slowly soluble, forming Acetic acid.		
Appearance & Odor	Clear colorless liquid; Strong Acetic acid.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	54° C (130° F)	Flammable Limits in Air % by Volume	Lower 2.7 %	Upper 10.3%
Extinguisher Media	Use carbon dioxide (CO_2), dry chemical, appropriate foam.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 137)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Moderate fire hazard, when exposed to heat and flame; can react vigorously with oxidizing materials. May produce severe burns to skin and eyes. Prolonged breathing of vapor may be harmful.

Autoiginition temperature: 331°C (629 °F)

D.O.T. **Acetic anhydride, 8, UN 1715, PG II**

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

SECTION V HEALTH HAZARD DATA

AA 19

Threshold Limited Value
TLV-CL 5ppm, TWA 21 mg/m^3, Orl-rat LD50: 1780 mg/kg, Ihl-rat LC50: 1000 ppm/4h (ACGIH 1992-93).

Effects of Overexposure
Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Emergency and First Aid Procedures
INGESTION: Do **NOT** induce vomiting. If conscious, rinse mouth with water. Get immediate medical attention. Never give anything by mouth to an unconscious person. **EYES:** Flush with water for 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with soap and water. Get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxgen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability			Conditions to Avoid
	Unstable		Avoid excessive temperature, heat, sparks and open flame.
	Stable	X	

Incompatibility (Materials to Avoid)
Acids, bases, oxidizing agents, reducing agents, moisture, alcohols, and finely powdered metals.

Hazardous Decomposition Products
Dangerous; when heated to decomposition, emits toxic and corrosive fumes of carbon monoxide and/or carbon dioxide.

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Eliminate all sources of ignition. Wear self-contained breathing apparatus and protective clothing. Cover with an activated carbon absorbent, take up and place in suitable container for proper disposal. Ventilate area and wash spill site after material pickup is complete.

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 agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) For laboratory use work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

Ventilation				
	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety goggles, face shield.

Other Protective Equipment Goggles and face shield, lab coat, apron, vented hood, proper gloves, fire extinguisher, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry area away from heat, sparks and open flame. Moisture sensitive. Store separate from oxidizing materials. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.
Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Use adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing.

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

Revision	Date	Approved	Chemical Safety Coordinator
No. 2	1/12/99	Michael Raszeja	MR