



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: UU0010
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Universal pH Indicator
Chemical Synonyms	Indicator, pH, Universal
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.

 NFPA HAZARD RATING MINIMAL 0 SLIGHT 1 MODERATE 2 SERIOUS 3 SEVERE 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>3</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	1	Fire	3	Reactivity	0
	Health	1						
Fire	3							
Reactivity	0							
		HMIS * 0 1 2 3 4						

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl alcohol, denatured*: (CAS No. 64-17-5)	69.5%	TWA: 1000 ppm
Water: (CAS No.7732-18-5)	30.5%	None established.

DANGER! FLAMMABLE! HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	-114°C (-173°F) †	Specific Gravity (H ₂ O = 1)	0.7919 - 0.7955 @ 60/60°F †
Boiling Point (°F)	74-80°C (165.2-176°F) †	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Ca 50 @ 20°C †	Evaporation Rate (n-Butyl Acetate =1)	Ca. 2 †
Vapor Density (Air=1)	Ca 1.5 †		† For Ethyl Alcohol, 200 Proof
Solubility in Water	Complete.		
Appearance & Odor	Green liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	(21°C) 70°F	Flammable Limits in Air % by Volume Pure Ethyl alcohol	Lower 4.0% (V)	Upper 20.0% (V)
Extinguisher Media	Water spray, carbon dioxide; dry chemical; alcohol-type, or universal-type foams.			

SPECIAL FIREFIGHTING PROCEDURES

Wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing. Water spray may be used to keep fire exposed containers cool.

Autoignition Temperature: 400°C (752°F) (Pure Ethyl alcohol)

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 127)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors formed from this product may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at location distant from handling point. **CAUTION:** Flame may not be visible in daylight. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

* Denaturants:
Methyl alcohol: (CAS No. 67-56-1)...TWA: 200 ppm; STEL: 250 ppm, Methyl isobutyl ketone: (CAS No. 108-10-1)...TWA: 50 ppm; 75 ppm, Isopropyl alcohol: (CAS No. 67-63-0)...TWA: (400 ppm); STEL: (500 ppm)

D.O.T. Ethanol, 3, UN1170, PG II, Ltd Qty ≤ 1 Lt.
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

UU0010

Threshold Limited Value None established for this mixture by ACGIH 2001. See Section II. *

Effects of Overexposure Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. Inhalation may cause dizziness, drowsiness, nausea and vomiting, inability to concentrate and irritation of the throat. Contact with skin causes irritation and defatting on prolonged contact. Contact with eyes may cause blindness. Target organs: Eyes, central nervous system, liver, kidneys.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If 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	X	Conditions to Avoid	Heat, fire, ignition source.
	Stable			

Incompatibility (Materials to Avoid) Can react with strong oxidizers, inorganic acids and halogens.

Hazardous Decomposition Products Thermal decomposition or burning can produce carbon monoxide and/or carbon dioxide.

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

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Remove all sources of ignition, provide adequate ventilation. For small spills, dilute with water and flush to sewer with copious amounts of water or absorb on vermiculite, paper, earth or other absorbent. Burn in an approved incinerator or open pit away from buildings and people.

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)	For normal laboratory use at room temperatures none should be needed with adequate room ventilation. If required work in fume hood. Do not use in confined area.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limits.

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

Other Protective Equipment Smock, apron, eye wash station, goggles, fire extinguisher, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry, well-ventilated area, away from any fire hazard. Use with adequate ventilation. Do not take internally.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Wash thoroughly after handling.
Remove and wash contaminated clothing.

Revision No.	10	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator	JAB
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