MATERIAL SAFETY DATA SHEET

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

MSDS No. TT 158
Effective Date February 5, 1998

SECTION I NAME

Product	THYMOLPHTHALEIN 0.04%
Chemical Synonyms	Thymolphthalein Alcohol Solution
Formula	Mixture.
Unit Size	up to 20 Lt.
C.A.S. No.	Mixture.

24 HOUR EMERGENCY ASSISTANCE

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

NFPA HAZARD RATING (3 / 0 / 0)

Health	3
Fire	4
Reactivity	2

HMIS *

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ethyl Alcohol: (CAS No. 64-17-5)	85.80%	TWA: 1000 ppm; 1880 mg/m3
Methyl Alcohol: (CAS No. 67-56-1)	4.29%	TWA: 200 ppm; STEL: 250 ppm
Methyl Isobutyl Ketone: (CAS No. 108-10-1)	0.90%	TWA: 50 ppm; STEL: 75 ppm
Isopropyl alcohol: (CAS No. 67-63-0)	9.01%	TWA: 400 ppm; STEL: 500 ppm
Thymolphthalein: (CAS No. 125-20-2)	0.04%	None established.

DANGER! FLAMMABLE. HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	-113°C (-173°F) *	Specific Gravity (H_2O = 1)	0.794 @ 60°F
Boiling Point (°F)	75-80°C (163-174°F) *	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	Ca 44.6 @ 68°F *	Evaporation Rate (Butyl Acetate =1)	4.1
Vapor Density (Air=1)	Ca 1.59 *		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless, mobile liquid; mild characteristic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	14°C (57°F) TCC.	Flammable Limits in Air % by Volume — Pure Ethyl Alc.	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
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 with full facepiece and protective clothing. Water spray may be used to keep fire exposed containers cool.

Autoignition Temperature: 363°C (685°F)

* For Pure Ethyl Alcohol

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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 128)

D.O.T. **FLAMMABLE LIQUIDS, N.O.S., (ETHYL ALCOHOL), 3, UN 1993, PG II**

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

SECTION V HEALTH HAZARD DATA TT 158

Threshold Limited Value

Methanol TWA: (skin) 262 mg/m^3; STEL: 328 mg/m^3. Isopropyl alcohol: TWA: 983 mg/m^3; STEL: 1230 mg/m^3, Methyl Isobutyl Ketone TWA: 205 mg/m^3; STEL: 307 mg/m^3.

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. **SKIN CONTACT:** Irritation and defatting of skin on prolonged contact. **EYE CONTACT:** May cause blindness.

Emergency and First Aid Procedures

INGESTION: Do **NOT** give anything by mouth to an unconscious or very drowsy person. If conscious, have victim drink several glasses of water. Call physician or Poison Control Center immediately. Induce vomiting if advised by physician or Poison Control Center. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SECTION VI REACTIVITY DATA

Stability			**Conditions to Avoid**
	Unstable		Heat, fire, ignition source.
	Stable	X	

Incompatibility (Materials to Avoid): Concentrated nitric or sulfuric acid; contact with Acetyl chloride and strong oxidizing agents may react violently.

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**	Not applicable.
	X	

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 with an inert dry material and place in a suitable 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.

Dispose of in accordance with federal, state and local regulations.

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 limit.

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

Keep container tightly closed when not in use.

Store in a cool, dry, well-ventilated area. Kep away from heat, sparks and flame. 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.

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 No. 1	Date 2/05/98	Approved Michael Raszeja	Chemical Safety Coordinator MR