MATERIAL SAFETY DATA SHEET

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

MSDS No. NN 80
Effective Date November 11, 1998

SECTION I NAME

Product	NEUTRAL RED 1%, ALCOHOL SOLUTION
Chemical Synonyms	Neutral Red Biological Stain
Formula	Mixture.
Unit Size	up to 4 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
Neutral Red, Biological Stain: (CAS No. 553-24-2)	1%	None established.
* Ethyl Alcohol (Denatured): (CAS No. 64-17-5)	99%	See Section V.
DANGER! FLAMMABLE! VAPOR HARMFUL.		
MAY BE HARMFUL IF SWALLOWED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	* Freezing Point -80°C (-112°F)	Specific Gravity (H_2O = 1)	0.795 @ 20/20°C
Boiling Point (°F)	* 74.5-79.5°C (163-174°F)	Percent Volatile by Volume (%)	99%
Vapor Pressure (mm Hg)	* Ca 42 mm @ 20°C	Evaporation Rate (Ether =1)	Greater than 1.
Vapor Density (Air=1)	* Ca 1.6		
Solubility in Water	Complete.		
Appearance & Odor	Red liquid; mild characteristic alcohol odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	47°F (8.3°C) TCC.	Flammable Limits in Air % by Volume	Lower 3.3 (Et. Alc.)	Upper 19.0 (Et. Alc.)
Extinguisher Media	Water spray; carbon dioxide (CO_2); dry chemical.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Ignition Temperature: 750°F (399°C) for ethyl alcohol.

* **Denaturants:**
Ethyl Alcohol: (CAS No. 64-17-5)
Methanol: (CAS No. 67-56-1)
Methyl isobutyl ketone: (CAS No. 108-10-1)
Isoprpyl alcohol: (CAS No. 67-63-0)

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. 127)

D.O.T. **DENATURED ALCOHOL, SOLUTION, 3, NA 1987, PG II**

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

SECTION V HEALTH HAZARD DATA NN 80

Threshold Limited Value

Ethyl Alcohol TWA: 1000 ppm; 1880 mg/m^3 (AIR).
Methanol TWA: SKIN 200 ppm; 262 mg/m^3.

Effects of Overexposure

INGESTION: Causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait, and coma. **SKIN ABSORPTION:** No evidence of adverse effects from available information. **INHALATION:** May cause dizziness, drowsiness, nausea and vomiting. **SKIN CONTACT:** Dehydration of skin. **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. **INHALATION:** Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with a mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, occasionally lifting upper and lower eyelids. Get medical attention if irritation develops or persists.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Concentrated nitric or sulfuric acid; strong oxidizing agents.

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. Wash spill area with soap and water.

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**	No.

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, 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.

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. 4	Date 11/11/98	Approved Michael Raszeja	Chemical Safety Coordinator MR