

# Material Safety Data Sheet

Product Name: AI 8493-4 Air Force Type IV

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Manufactured by:  
Randall Industries, LLC  
4565 Hemlock Road  
Cherry Tree, PA 15724

## Section I

Emergency Phone Number: 1-800-535-5053  
Phone Number for Information: 1-814-743-6630  
MSDS Revision: Apr 12, 2005

## Section II - Hazardous Ingredients

Ingredient(s):	CAS No:	OSHA PEL	ACGIH TLV
Alcohol Ethoxylate	68439-46-3	N/D	N/D
Nonyphenol Ethoxylate	9016-45-9	N/D	N/D

NOT REGULATED BY D.O.T.

Conforms to MIL-PRF-8493 Type IV

HMIS: 100

NFPA:

N/A=Not Applicable N/D=Not Determined

## Section III - Physical / Chemical Data

Appearance:	Clear amber liquid	Solubility in Water:	100 % at < 80 deg. F
Odor:	Slight	Specific Gravity:	1.0
pH:	9.5	Vapor Pressure:	4 mm Hg
Boiling Point:	212 °F (°C)	Vapor Density:	N/D
Melting Point:	N/D °F (°C)	Evaporation Rate:	N/D

## Section IV - Fire And Explosion Hazards

Flash Point: None °F (°C) (CC) Flammable Limits: N/D LEL: N/D UEL: N/D

Extinguishing Media: Use water fog, foam, dry chemical or Carbon Dioxide.

Special Fire Fighting Procedures: Wear an approved self-contained breathing apparatus and protective clothing with full face piece operated in the positive pressure demand mode and full body protection.

Fire / Explosive Hazards: May liberate irritating or toxic vapors during combustion or decomposition.

## Section V - Reactivity Data

Stability:  Stable  Unstable

Hazardous Polymerization:  May occur  Will not occur

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide and other organic compound may be released during combustion.

Conditions to Avoid: Nitrosating agents(i.e. Sodium Nitrite), extremely high temperatures.

## Section VI - Health Hazard Data

Primary Routes of Entry:  Inhalation  Skin Contact  Ingestion

Health Hazards: Eye: Moderate irritation.  
Skin: Slightly irritating.  
Inhalation: Mist or vapors may cause irritation of mucous membranes, coughing.

Carcinogenicity:  NTP  IARC Monographs  OSHA Regulated  Not a carcinogen

Signs and Symptoms of Exposure: Inhalation: Mist or vapors may cause irritation of mucous membranes, coughing.  
Eye: Causes burning and redness and irritation.  
Skin: Prolonged exposure may cause irritation.

Conditions Generally Aggravated by Exposure: Preexisting skin disorders may be aggravated with contact.

Emergency and First Aid Procedures: Eyes: Flush with water for 15 minutes, if irritation persists get medical attention.  
Skin: Wash thoroughly with water, if irritation persists get medical attention.  
Ingestion: If conscious and able to swallow, induce vomiting. Seek medical attention.

## Section VII - Precautions for Safe Handling and Use

If Material is Released or Spilled: Contain liquid to prevent discharge to streams. Spills or releases should be reported to appropriate local, state and federal regulatory agencies.

Wastes Disposal Method: Dispose of in accordance with federal, state, and local regulations.

Precautions for Handling and Storing: Store between 40 and 120 degrees F.

Other Precautions: Keep Out Of Reach Of Children.

## Section VIII - Control Measures

Respiratory Protection: None required under normal conditions with adequate ventilation. Ventilation: Adequate ventilation

Protective Gloves: Rubber gloves

Eye Protection: Proper eye protection is recommended.

Other Protective Equipment: Do not wear contact lenses. Eye wash and safety shower should be nearby.

Work/Hygenic Practices: Wash hands before eating. Launder contaminated clothing before reuse.