

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: AMCO 4444 CAS number: N/A - mixture
Chemical Name & Synonyms: N/A - mixture
Appearance: Clear red liquid
Use: Soldering flux
Manufacturer: Force Industries Division Tel. 610-647-3575
EMERGENCY PHONE No. CALL CHEMTREC (800) 424-9300 * Available 24 Hours

II. CHEMICAL COMPOSITION

<u>Material</u>	<u>SARA III</u>	<u>CAS Number</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ammonium Chloride	-----	12125-02-9	10 mg/m ³	10 mg/m ³
Glycerine	-----	56-81-5	15 mg/m ³	10 mg/m ³

Others, if any, are non-hazardous and are claimed as trade secret.

Hazard Rating: HMIS: (H =1 F=0 R=0 PE=C) NFPA: (H=1 F=0 R=0)

III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: Caution: Dermatitis. Strong irritant to eyes and respiratory system.
Effects of Chronic Exposure: None currently known
Effects of Acute Overexposure
Swallowing: Irritant to digestive system
Skin Absorption: None currently known
Inhalation: Irritant to respiratory system
Skin Contact: Irritant from prolonged contact
Eye Contact: Irritant

IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a physician.
Skin: Promptly flush with water to remove all residue.
Inhalation: Remove to fresh air.
Eyes: Flush with water for at least 15 minutes to remove all residue.

V. FIRE AND EXPLOSION DATA

Flashpoint (°F): N/A
Flammable limits in air: LOWER: N/A UPPER: N/A (% by volume)
Extinguishing media: AMCO 4444 is water based
Special firefighting procedures: None
Unusual fire and explosion hazards: None

VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid: None
Hazardous polymerization/Conditions to avoid: None
Incompatibility, Materials to avoid: None
Hazardous combustion or Decomposition products: Ammonium chloride

VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled: Contain spill, flush area with water to chemical sewer.
Waste disposal method: Dispose of in accordance with all federal, state and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory protection: If the workstation is not ventilated to remove all fumes, dust and vapors, use a NIOSH approved mask.
Ventilation: Maintain airflow away from user to exhaust all fumes, dust, and vapors so that the TLV is never exceeded.
Protective gloves: Chemical impervious
Eye protection: Chemical safety goggles.
Other protective equipment: For operations where contact can occur, coveralls, apron, and rubber foot coverings to prevent any contact.

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IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store under ambient conditions. Wash thoroughly after handling to remove all residue.

Other precautions: Wash contaminated clothing before reuse.

X. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F @ 760 mmHg):	>212	Specific gravity (H ₂ O = 1 @ 72°F):	1.12
Vapor density (air = 1):	1.06	Vapor pressure:	N/E
Percent volatiles by volume:	61	Solubility in water:	complete
Evaporation rate (butyl acetate = 1):	<1	pH:	7

XI. OPTIONAL INFORMATION

Department of Transportation:	DOMESTIC GROUND
Proper shipping name:	Not regulated
Hazard Class:	None
ID & Packing Group Number:	N/A
ERG Guide Number:	N/A

Toxic Substance Control Act: All components of this mixture are listed within the TSCA inventory.

State Right-to-Know Programs:

Pennsylvania: This product contains the following chemicals listed in PA Code Title 34, Hazardous Substance List: Ammonium Chloride

California: This product contains the following compounds subject to the reporting and labeling requirements of Proposition 65: None

NOTES: NA=Not Applicable NE=Not Established PE=Personal Equipment
H=Health F=Fire R=Reactivity

While we believe all information presented herein is accurate and reliable, the data are not to be taken as a guarantee or representation of any kind for which Force Industries assumes legal responsibility. They are offered solely for your consideration, investigation, and verification.