

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

Product Name: AMCO 2813 CAS number: N/A - mixture  
Chemical Name & Synonyms: N/A - mixture  
Appearance: Clear liquid with alcohol odor.  
Use: Canning industry soft soldering flux  
Manufacturer: Force Industries Division Tel. 610-647-3575  
EMERGENCY PHONE No. CALL CHEMTREC (800) 424-9300 \* Available 24 Hours

## II. CHEMICAL COMPOSITION

Material	SARA/III	CAS Number	OSHA PEL	ACGIH TLV
Isopropyl alcohol	< 70.0%	67-63-0	1225 mg/m <sup>3</sup>	980 mg/m <sup>3</sup>
Ammonium chloride	-----	12125-02-9	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

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

Hazard Rating: HMIS: (H =1 F=3 R=0 PE=C) NFPA: (H=1 F=3 R=0)

## III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: Caution: strong irritant to skin, eyes, and respiratory system. Dermatitis, and possible burns.

Effects of Chronic Exposure: See "Target Organ" statement

Effects of Acute Overexposure

Swallowing: May cause nausea and diarrhea. Chemical burns to digestive system.

Skin Absorption: None currently known.

Inhalation: Irritant to respiratory system. Inhalation of vapors may result in giddiness, headache, or dizziness. Existing lung disorders will be aggravated.

Skin Contact: May cause chemical burns; dermatitis. Existing skin disorders may be aggravated.

Eye Contact: Irritation to eye surfaces. Possible damage to the eye.

## IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call a physician at once or your Poison Control Center. Do not aspire into lungs; aspiration pneumonitis.

Skin: Wash hands with soap and water to remove all residue. If rash develops, consult a physician.

Inhalation: Remove to fresh air. If fumes are inhaled, call a physician.

Eyes: Flush with water for at least 15 minutes to remove all residue. Get medical help NOW! Blindness can result !

## V. FIRE AND EXPLOSION DATA

Flash point (°F): 100°F

Flammable limits in air: LOWER: 2.0 as isopropanol UPPER: 12.0 as isopropanol (% by volume)

Extinguishing media: Dry chemical or CO<sub>2</sub>

Special fire fighting procedures: Wear protective clothing

Unusual fire and explosion hazards: None

## VI. REACTIVITY INFORMATION

Stability considerations / Conditions to avoid: Stable / Heat, sparks, open flames

Hazardous polymerization / Conditions to avoid: Will not occur / None

Incompatibility / Materials to avoid: Concentrated acids, oxidizers, and alkalis

Hazardous combustion or Decomposition products: Carbon monoxide and/or carbon dioxide

## VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled: Contain spill, absorb, sweep-up. Flush area to chemical sewer.

Waste disposal method: Dispose of in accordance with all federal, state, and local regulations.

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## VIII. SPECIAL PROTECTION INFORMATION

Respiratory protection: If the workstation is not properly ventilated to exhaust all fumes and dusts, use a NIOSH approved mask.

Ventilation: Maintain airflow away from user to remove all fumes and dusts, so that the PEL is never exceeded.

Protective gloves: Chemical and oil impervious.

Eye protection: Chemical tight safety goggles. Do NOT wear contact lenses.

Other protective equipment: Full protective equipment normally used in a soldering operation so as to prevent any contact.

## IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

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

Other precautions: Remove and professionally wash contaminated clothing before re-use.

## X. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F @ 760 mmHg):	192	Specific gravity (H <sub>2</sub> O = 1 @ 72°F):	0.940
Vapor density (air = 1):	2.08	Vapor pressure:	20.72
Percent volatiles by volume:	73.	Solubility in water:	Complete
Evaporation rate (butyl acetate = 1):	>1		

## XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND

Proper shipping name: Isopropyl alcohol mixture

Hazard Class: 3

ID & Packing Group Number: UN 1219, PG II

ERG Guide Number: 129

Toxic Substance Control Act: All components of this compound 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: All components .

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

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