

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: AMCO 3523 CAS number: N/A - mixture
Chemical Name & Synonyms: N/A - mixture
Appearance: Brown liquid with alcohol odor
Use: General purpose 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
Isopropanol	<80%	67-6-30	1225 mg/m ³	980 mg/m ³
Glycerine	<05%	56-81-5	10 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=3 R=0 PE= C) NFPA: (H=1 F=3 R=0)

III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: Danger. Can cause severe and painful burns on contact with any part of the body or if taken internally.

Effects of Chronic Exposure: Irritation to skin (scarring) eyes and respiratory system.

Effects of Acute Overexposure

Swallowing: May cause nausea and diarrhea. Can cause damage to digestive system.

Skin Absorption: None currently known.

Inhalation: Irritation to respiratory system. Coughing and sneezing. Existing lung disorders will be aggravated. Over inhalation may be fatal.

Skin Contact: Dermatitis, possible chemical burns, corrosive to skin. Existing disorders will be aggravated.

Eye Contact: Irritation to eyes, tearing, burn of eye surfaces, corrosive to eyes, may cause blindness.

IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: May be fatal. Corrosive to mucous membranes. Call a physician at once or your poison control center.

Skin: Promptly flush with water to remove all residue. If rash or burn develops, consult a physician. Material is corrosive.

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

V. FIRE AND EXPLOSION DATA

Flash point (°F): TCC 53

Flammable limits in air : LOWER: 2.5 as isopropanol UPPER: 12.0 as isopropanol (% by volume)

Extinguishing media: Use appropriate media for surrounding fire.

Special fire fighting method: Full protective equipment required.

Unusual fire and explosion hazards: Vapors may travel and ignition sources at locations distant from product handling point. Vapors may settle and flash back explosively. May produce a floating fire hazard.

VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid

Stable / Heat, spark, open flame

Hazardous polymerization/Conditions to avoid

Will not occur / None

Incompatibility, Materials to avoid:

Alkalies, oxidizers and acids

Hazardous combustion or decomposition products:

Carbon monoxide and/or dioxide.

VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled:

Contain spill, absorb, sweep-up and dispose. 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 vapors, use a NIOSH approved mask.

Ventilation: Maintain airflow away from user to remove all fumes and vapors, so that the PEL is never exceeded. Adhere to environmental regulations for exhausts.

Protective gloves: Chemical and acid impervious.

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

Other protective equipment: Full protective equipment normally used in a soldering operation to prevent any contact. Review operations to avoid contact with hazardous gas, liquids or solids.

See also:
29 CFR 1910.132 - 29 CFR 1910.140. Personal Protective Equipment
29 CFR 1910.251 - 29 CFR 1910.257. Welding, Cutting and Brazing

IX. STORAGE, HANDLING AND SPECIAL PRECAUTIONS

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

Other precautions: Do not breathe fumes. Professionally wash contaminated clothing before re-use. Existing lung disorders will have increased toxic susceptibility.

X. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F @ 760 mmHg):	182	Specific gravity (H ₂ O = 1 @ 72°F):	0.845
Vapor density (air = 1):	N/E	Vapor pressure:	N/E
Percent volatiles by volume:	82	Solubility in water:	Miscible
Evaporation rate (butyl acetate = 1):	>1		

XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND

Proper shipping name: Isopropyl alcohol mixture

Hazard Class: Class 3

ID & Packing Group No. UN 1219 PG II

ERG Guide Number: 129

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

SARA Title III Program: This product contains the following toxic chemicals subject to the reporting requirements of EPCRA of 1986 and 40 CFR 372. This information must be included in all MSDS that are copied and distributed for this material.

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>
Isopropyl alcohol	67-63-0	<80%

Hazard Communication Program: Hazardous warnings and training requirements as mandated for corrosive material.

State Right-to-Know Programs:

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

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

NOTES: NA=Not Applicable
F=Fire

NE=Not Established
R=Reactivity

H=Health
PE=Personal Equipment

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.