

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

Product Name: AMCO 105-20 CAS number: N/A - mixture  
Chemical Name & Synonyms: N/A - mixture  
Appearance: Greenish blue slurry to paste with no characteristic odor.  
Use: Aluminum brazing flux  
Manufacturer: Force Industries Division, 28 Industrial Blvd. Paoli, PA 19301 Tel. 610-647-3575  
EMERGENCY PHONE No. TRANSPORTATION 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>
Lithium Chloride	--	7447-41-8	5.0 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Sodium fluoaluminat	--	15096-52-3	2.5 mg/m <sup>3</sup> as F	2.5 mg/m <sup>3</sup> as F
Propylene glycol	--	0057-55-6	-----	-----

The product and the materials it is made from are not known to contain lead.

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

Hazard Rating: HMIS: (H = 2 F = 1 R = 0 PE = C) NFPA: (H = 2 F = 1 R = 0)

## III. POTENTIAL HEALTH EFFECTS AND HEALTH HAZARD DATA

Target organ statement: Caution: May be harmful if swallowed; irritating to skin and eyes.  
Effects of Chronic Exposure: Coughing, CNS, erythema, nausea, and kidney effects.  
Effects of Acute Overexposure  
Swallowing: Nausea, vomiting and diarrhea.  
Skin Absorption: Not absorbed by skin. Skin contact may cause dermatitis; possible chemical burns.  
Existing skin disorders may be aggravated  
Inhalation: Irritant to respiratory system. Lithium dust and fumes are absorbed through the lungs - lung damage. Pre-existing lung disorders will be aggravated.  
Eye Contact: Irritation. Possible burn to eye surfaces.

## IV. EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Lithium and fluoride present. Call a physician or your Poison Control Center.  
Skin: Wash hands with soap and water to remove all residues. If rash develops, consult a physician.  
Inhalation: Remove to fresh air. If fumes, vapors, or dusts are inhaled, call a physician.  
Eyes: Flush with water for at least 15 minutes to remove all residues. Promptly get medical help.

## V. FIRE AND EXPLOSION DATA

Flash point (°F): N/A  
Flammable limits in air: LOWER: N/A UPPER: N/A (% by volume)  
Extinguishing media: Does not support combustion.  
Special fire fighting method: Metal halide and toxic fumes may be produced; use self-contained breathing apparatus. Toxic metal halide fumes produced.  
Unusual fire and explosion hazards: Dense smoke may be generated.

## VI. REACTIVITY INFORMATION

Stability considerations/Conditions to avoid: Stable/None  
Hazardous polymerization/Conditions to avoid: Will not occur/None  
Incompatibility/Materials to avoid: Acids, cyanides, and sulfides  
Hazardous combustion/decomposition products: In presence of water and heat, may emit HCl and HF.

## VII. SPILL AND LEAK RESPONSE

Steps to be taken if material is released or spilled: Contain spill, absorb, sweep-up. Remove to chemical sewer. 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 braze/welding operation so as 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):	>212	Specific gravity (H <sub>2</sub> O = 1 @ 72°F):	N/E
Vapor density (air = 1):	N/A	Vapor pressure:	N/E
Percent volatiles by volume:	N/A	Solubility in water:	Moderate
Evaporation rate (butyl acetate = 1):	N/A		

### XI. OPTIONAL INFORMATION

Department of Transportation: DOMESTIC GROUND

Proper shipping name: Not a regulated product

Hazard Class: N/A

ID & Packing Group No. N/A

ERG Guide Number: N/A

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: None

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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