

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT IDENTIFICATION

Product Name: AMCO 105-600 CAS number: N/A - mixture  
Chemical Name & Synonyms: N/A - mixture  
Appearance: White paste with no characteristic odor.  
Use: Aluminum brazing 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
Lithium chloride	No	7447-41-8	5.0 mg/m <sup>3</sup>	
Strontium chloride	No	10476-85-4		
Sodium fluoaluminate	No	15096-52-3	2.5 mg/m <sup>3</sup>	
Potassium fluoride	No	7789-23-3	2.5 mg/m <sup>3</sup>	
Propylene glycol	No	0057-55-6	-----	-----

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

Hazard Rating: HMIS: (H = F = R = PE = ) NFPA: (H = F = ,R = )

## 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 residue. 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 residue. 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  
Unusual fire and explosion hazards: Dense smoke may be generated.

## VI. REACTIVITY INFORMATION

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

## 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.

## VIII. SPECIAL PROTECTION INFORMATION

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Respiratory protection: If the work station 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:

**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/A
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: Potassium Fluoride Mixture  
Hazard Class: 6.1  
ID & Packing Group No. UN 1812, PG III  
ERG Guide Number: 154

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.

Chemical Name	CAS No.	Concentration
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Hazard Communication Program Hazardous warnings and training requirements as mandated for corrosive

State Right-to-Know Programs:  
Pennsylvania: This product contains the following chemicals listed in PA Code Title 34, Hazardous  
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  
H=Health F=Fire R=Reactivity 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.