



MATERIAL SAFETY DATA SHEET

alpha metals

600 Route 440  
Jersey City, New Jersey 07304  
Telephone 201-433-6776

MIF-F-14256  
NEW  
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NUMBER 448 381  
REVISION 01/13/89  
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SECTION I. GENERAL INFORMATION

PRODUCT NAME (NUMBER) 615 Flux  
CHEMICAL FAMILY Mixture.  
D.O.T. HAZARD CLASS Flammable liquid.

SECTION II. HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Isopropyl Alcohol	67-63-0	25-50	400 ppm	400 ppm
Mineral Spirits	8052-41-3	5-10	* 500 ppm	Stel 500 ppm * 100 ppm

\* Recommended by the manufacturer.

SECTION III. PHYSICAL DATA

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F. (760 mm Hg)	180	SPECIFIC GRAVITY (H2O=1) (@ 77 deg F)	0.878
VAPOR PRESSURE (mm Hg at 20 Deg. C.)	33	% VOLATILE BY WEIGHT	63
VAPOR DENSITY (AIR=1)	2.1	EVAPORATION RATE (BUAC=1)	2.5
SOLUBILITY IN WATER	Slight	pH (5% in H2O)	5-6
APPEARANCE AND ODOR	Clear, pale yellow liquid, non-residual odor.		

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air) LEL: 1.0 UEL: NE

FLASH POINT Deg F. T.C.C. 53

EXTINGUISHING MEDIA Carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus in enclosed area. Cool exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARD Vapors are heavier than air and may travel along ground. Never use welding torch on or near containers (even empty).

NA - NOT APPLICABLE NE - NOT ESTABLISHED UN - UNKNOWN

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**SECTION V.(A) HEALTH HAZARD DATA** (Symptoms/Effects Of Overexposure)

**INHALATION:** Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.  
**INGESTION:** Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.  
**SKIN:** Prolonged or repeated contact can cause defatting, cracking of the skin and possible dermatitis.  
**EYES:** Can cause severe irritation, tearing, blurred vision.  
**LISTED CARCINOGENS:** None.  
**CHRONIC TOXICITY:** See Section X.

**SECTION V.(B) HEALTH HAZARD DATA** (Emergency and First Aid Procedures)

**INHALATION** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet, and get medical attention.  
**INGESTION** DO NOT induce vomiting, keep person warm, quiet, and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. See note to physician Section X.  
**SKIN CONTACT** Wash exposed area with soap and water. Remove contaminated clothing.  
**EYE CONTACT** Flush with large amount of water, lifting upper and lower lids occasionally. Get medical attention.

**SECTION VI. REACTIVITY DATA**

**STABILITY** CONDITIONS Heat, sparks and open flames.  
**STABLE:** X      **UNSTABLE:** TO AVOID

**INCOMPATABILITY** Strong oxidizing agents.  
(Materials to Avoid)

**HAZARDOUS DECOMPOSITION PRODUCTS** Carbon dioxide and carbon monoxide.

**HAZARDOUS POLYMERIZATION** CONDITIONS NONE  
**WILL OCCUR:** WILL NOT OCCUR: X      TO AVOID

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**SECTION VII. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Keep away from potential ignition sources. Ventilate if in enclosed area. Add absorbent and scoop into appropriate container. Transfer to hood and evaporate or seal for waste disposal.

WASTE DISPOSAL Destroy by approved incineration or deposit in approved landfill.

Must be in accordance with Federal, State and Local Laws and Regulations

**SECTION VIII. SPECIAL PROTECTION**

RESPIRATORY If threshold limit value is exceeded, use NIOSH/MSHA approved respirator for organic vapors.

EYEWEAR Chemical splash goggles in compliance with OSHA regulations are advised. Provide eye bath near work site.

CLOTHING/GLOVES Wear resistant gloves such as rubber, neoprene or plastic.

VENTILATION Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLVs.

**SECTION IX. SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Observe precautions for a flammable liquid. Keep container closed when not in use. Store away from ignition sources, in a cool dry area with adequate ventilation. Read all container labeling.

OTHER PRECAUTIONS:

Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

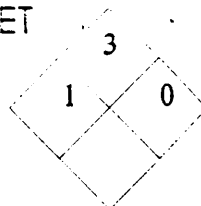
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**SECTION X. ADDITIONAL INFORMATION**

HEALTH HAZARD DATA: (continued)

CHRONIC TOXICITY:

Overexposure to Isopropyl Alcohol has been suggested as a possible cause of kidney damage in humans.

Note to physician: Mineral spirits (Section II) is an Aliphatic Petroleum Hydrocarbon.  
In case of ingestion, gastric Lavage is recommended.

**EMERGENCY TELEPHONE NUMBER**

CHEMTREC

1-800-424-9300

DAY OR NIGHT

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