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### MATERIAL SAFETY **DATA SHEET**

Alpha Metals

600 Route 440 Jersey City, New Jersey 07304 (201) 434-6778 (201) 434-7508 fax

www.alphametals.com

### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RF800 FLUX

MANUFACTURER'S NAME: ALPHA METALS, INC 600 ROUTE 440 ADDRESS:

JERSEY CITY, NJ 07304 TRANSPORT EMERGENCY #: CHEMTREC: 1-800-424-9300

BUSINESS PHONE: 1-201-434-6778

#### 2. INCREDIENT AND EXPOSURE LIMIT INFORMATION

CHEMICAL NAME CAS # % W/W OSHA PEL - TWA ISOPROPANOL 67-63-0 80 - 90400 ppm - TWA

1 - 5 GUM ROSIN 8050-09-7 NE1 - 5 DICARBOXYLIC ACIDS 68937-72-4 NE

#### HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: MODERATE TO SEVERE EYE IRRITANT.

HIGHLY FLAMMABLE

MODERATE GASTROINTESTINAL TRACT IRRITANT.

MINOR RESPIRATORY TRACT IRRITANT.

CAUSES MILD SKIN IRRITATION

HMIS RATING SYSTEM:

Health: 1 ; Flammability: 3 ; Reactivity: 0 ; Protection: B

NFPA RATING SYSTEM:

SKIN CONTACT:

ISOPROPYL ALCOHOL health-1; flammability-3; reactivity-0

ROUTES OF ENTRY: EYE CONTACT; SKIN CONTACT; INHALATION

TARGET ORGANS: SKIN; RESPIRATORY TRACT; EYES; NERVOUS SYSTEM

MEDICAL CONDITIONS AGGRAVATED: RESPIRATORY DISEASE INCLUDING ASTHMA AND

BRONCHITIS

IMMEDIATE (ACUTE) SYMPTOMS OVER-EXPOSURE BY ROUTE OF EXPOSURE:

INHALATION: CAN CAUSE MINOR RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS,

FATIGUE, NAUSEA, AND HEADACHE.

IRRITATION MAY BE DELAYED FOR SEVERAL HOURS.

CONTACT WITH THE EYES MAY CAUSE MODERATE TO SEVERE EYE EYES:

> EYE CONTACT MAY RESULT IN TEARING AND REDDENING, INJURY. BUT NOT LIKELY TO PERMANENTLY INJURE EYE TISSUE. TEMPORARY VISION IMPAIRMENT (CLOUDY OR BLURRED VISION) IS POSSIBLE. CAN CAUSE MINOR SKIN IRRITATION, DEFATTING, AND DERMATITIS.

SKIN ABSORPTION: NO ABSORPTION HAZARD IN NORMAL INDUSTRIAL USE.

INGESTION:

IRRITATING TO MOUTH, THROAT, AND STOMACH. CAN CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.



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### 3. HAZARDS IDENTIFICATION (Cont.)

LONG TERM (CHRONIC) HEALTH EFFECTS:

CARCINOGENICITY: NONE OF THE SUBSTANCES HAVE BEEN SHOWN TO CAUSE CANCER IN

LONG TERM ANIMAL STUDIES. NOT A CARCINOGEN ACCORDING TO NTP,

IARC, OR OSHA.

REPRODUCTION: NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS

PRESENT AT GREATER THAN 0.1% MAY CAUSE BIRTH DEFECTS. WOMEN OF CHILD BEARING AGE SHOULD AVOID EXPOSURE TO LEAD AND ITS

INORGANIC COMPOUNDS DUE TO POST-NATAL EFFECTS.

### 4. FIRST AID MEASURES

SKIN EXPOSURE: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND

LAUNDER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR

PERSISTS.

EYE EXPOSURE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20

MINUTES RETRACTING EYELIDS OFTEN. TILT THE HEAD TO PREVENT CHEMICAL FROM TRANSFERRING TO THE UNCONTAMINATED EYE. GET IMMEDIATE MEDICAL ATTENTION AND MONITOR THE EYE DAILY AS

ADVISED BY YOUR PHYSICIAN.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE A

TRAINED INDIVIDUAL ADMINISTER OXYGEN.

INGESTION: DO NOT INDUCE VOMITING AND SEEK MEDICAL ATTENTION

IMMEDIATELY. DRINK TWO GLASSES OF WATER OR MILK TO DILUTE.

PROVIDE MEDICAL CARE PROVIDER WITH THIS MSDS.

NOTES TO DOCTOR: NO ADDITIONAL FIRST AID INFORMATION AVAILABLE

### FIRE FIGHTING MEASURES

FLAMMABILITY SUMMARY: HIGHLY FLAMMABLE FLASH POINT: 62 deg. F AUTOIGNITION TEMPERATURE: 399 deg. C

EXPLOSIVE LIMITS % IN AIR: N/E

EXTINGUISHING MEDIA: USE ALCOHOL RESISTANT FOAM, CARBON DIOXIDE, OR

DRY CHEMICAL EXTINGUISHING AGENTS. WATER MAY BE

INEFFECTIVE BUT WATER SPRAY CAN BE USED

EXTINGUISH A FIRE IF SWEPT ACROSS THE BASE OF THE FLAMES. WATER CAN ABSORB HEAT AND KEEP EXPOSED

MATERIAL FROM BEING DAMAGED BY FIRE.

FIRE AND EXPLOSION HAZARDS: VAPORS MAY BE IGNITED BY SPARKS, FLAMES OR OTHER

SOURCES OF IGNITION IF MATERIAL IS ABOVE THE FLASH POINT GIVING RISE TO A FIRE (CLASS B). VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO A

SOURCE OF IGNITION AND FLASH BACK.

FIRE FIGHTING METHODS: DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION

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### 5. FIRE FIGHTING MEASURES (Cont.)

INCLUDING SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. FIGHT FIRE FROM A SAFE DISTANCE AND A PROTECTED LOCATION DUE TO THE POTENTIAL OF HAZARDOUS VAPORS AND DECOMPOSITION PRODUCTS.

FLAMMABLE COMPONENT(S) OF THIS MATERIAL MAY BE LIGHTER THAN WATER AND BURN WHILE FLOATING ON THE SURFACE.

HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE

#### 6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS AND EQUIPMENT: EXPOSURE TO THE SPILLED MATERIAL MAY BE IRRITATING

OR HARMFUL. FOLLOW PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS FOUND IN SECTION VIII OF THIS

MSDS.

METHODS FOR CLEAN-UP: PREVENT THE SPREAD OF ANY SPILL TO MINIMIZE HARM

TO HUMAN HEALTH AND THE ENVIRONMENT IF SAFE TO DO SO. WEAR COMPLETE AND PROPER PERSONAL PROTECTIVE EQUIPMENT FOLLOWING THE RECOMMENDATION OF SECTION VIII AT A MINIMUM. DIKE WITH SUITABLE ABSORBENT MATERIAL LIKE GRANULATED CLAY. GATHER AND STORE IN

A SEALED CONTAINER PENDING A WASTE DISPOSAL

EVALUATION.

### 7. HANDLING AND STORAGE

HANDLING MEASURES: MILDLY IRRITATING MATERIAL. AVOID UNNECESSARY EXPOSURE.

USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT

STORAGE MEASURES: STORE IN A COOL DRY VENTILATED LOCATION. ISOLATE FROM

INCOMPATIBLE MATERIALS AND CONDITIONS. KEEP CONTAINER(S)

CLOSED.

KEEP AWAY FROM SOURCES OF IGNITION

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES: GENERAL ROOM VENTILATION MIGHT BE REQUIRED TO

MAINTAIN OPERATOR COMFORT UNDER NORMAL CONDITIONS OF

USE.

RESPIRATORY PROTECTION: NO RESPIRATORY PROTECTION REQUIRED UNDER NORMAL

CONDITIONS OF USE. PROVIDE GENERAL ROOM EXHAUST VENTILATION IF SYMPTOMS OF OVEREXPOSURE OCCUR AS EXPLAINED IN SECTION III. A RESPIRATOR MAY BE

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### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

REQUIRED.

EYE PROTECTION: WEAR CHEMICALLY RESISTANT SAFETY GLASSES WITH SIDE

SHIELDS WHEN HANDLING THIS PRODUCT. WEAR ADDITIONAL EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR

FACE SHIELD WHEN THE POSSIBILITY EXISTS FOR EYE CONTACT WITH SPLASHING OR SPRAYING LIQUID, OR

AIRBORNE MATERIAL. DO NOT WEAR CONTACT LENSES. HAVE

AN EYE WASH STATION AVAILABLE.

SKIN PROTECTION: WEAR PROTECTIVE GLOVES. INSPECT GLOVES FOR CHEMICAL

BREAK-THROUGH AND REPLACE AT REGULAR INTERVALS. CLEAN PROTECTIVE EQUIPMENT REGULARLY. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING,

DRINKING, AND WHEN LEAVING WORK

GLOVES: NEOPRENE; NITRILE

CONTROL PARAMETERS: ------ACGIH EXPOSURE LIMITS-------

CHEMICAL NAME TLV-TWA STEL CEILING

GUM ROSIN sensitizer; reduce exposure to as low

as possible

ISOPROPANOL (400) ppm TWA; (500) ppm

### 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: CLEAR, RED LIQUID, LIGHT CITRUS ODOR.

pH: 1.6

VAPOR DENSITY: 2.0

SPECIFIC GRAVITY: 0.950

SOLUBILITY IN WATER: COMPLETE

VAPOR PRESSURE, mm Hg at 20C: 33.00

EVAPORATION RATE: 2.8

BOILING POINT (C): 180

%VOLATILE BY WEIGHT: 83

### 10. STABILITY AND REACTIVITY

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS

ELEVATED TEMPERATURES



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### 11. TOXICOLOGICAL INFORMATION

COMPONENT TOXICOLOGY DATA (NIOSH)

CHEMICAL NAME

ISOPROPYL ALCOHOL

LD50/LC50

Inhalation LC50 Rat : 16000 ppm/8H;
Oral LD50 Rat : 5045 mg/kg; Oral LD50
Mouse : 3600 mg/kg; Dermal LD50 Rabbit

: 12800 mg/kg

### 12. ECOLOGICAL INFORMATION

OVERVIEW: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO THE ECOLOGY.

### 13. DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION: SPENT OR DISCARDED MATERIAL IS A HAZARDOUS WASTE.
DISPOSAL METHODS: DISPOSE OF BY INCINERATION FOLLOWING FEDERAL, STATE,

LOCAL, OR PROVINCIAL REGULATIONS.

EPA WASTE CODES: D001

### 14. TRANSPORT INFORMATION

SHIPPING BASIC DESCRIPTION: DOT & IATA: FLAMMABLE LIQUID, N.O.S., (ISOPROPYL

ALCOHOL) 3, UN/NA1993, PGII, LABEL REQUIRED:

FLAMMABLE LIQUID

### 15. REGULATORY INFORMATION

TSCA STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY

OF EXISTING CHEMICAL SUBSTANCES.

REGULATED CHEMICALS:

CHEMICAL NAME REGULATION ISOPROPYL ALCOHOL 67-63-0 SARA 313

CERCLA REGULATED CHEMICALS AND REPORTABLE QUANTITY (RQ):



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### 16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed of implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Alpha Metals, Inc. assumes no responsibility for injury to the vendee or third persons proximately caused by the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.