

ALPHA METALS -- 611F FLUX -- 3439-00-069-5815

=====
Product Identification
=====

Product ID:611F FLUX
MSDS Date:08/27/1997
FSC:3439
NIIN:00-069-5815
Status Code:A
MSDS Number: CJDMY
=== Responsible Party ===
Company Name:ALPHA METALS
Address:600 ROUTE 440
City:JERSEY CITY
State:NJ
ZIP:07304-1027
Country:US
Info Phone Num:201-434-7508
Emergency Phone Num:(800)424-9300
Resp. Party Other MSDS Num.:0
000058
Chemtrec Ind/Phone:(800)424-9300
CAGE:96613

==== Contractor Identification ====

Company Name:FRYS METALS INC (FORMER ALPHA METALS)
Address:600 ROUTE 440
Box:City:JERSEY CITY
State:NJ
ZIP:07304
Country:US
Phone:201-434-6778
CAGE:96613

=====
Composition/Information on Ingredients
=====

Ingred Name:ISOPROPYL ALCOHOL (SARA 313)
CAS:67-63-0
RTECS #:NT8050000
Minumum % Wt:10.
Maxumum % Wt:25.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM/500STEL;9495

In

gred Name:HEXYLENE GLYCOL
CAS:107-41-5
RTECS #:SA0810000
Minumum % Wt:5.
Maxumum % Wt:10.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 25 PPM
ACGIH TLV:C 25 PPM; 9495

Ingred Name:ISOBUTYL ALCOHOL (CERCLA)
CAS:78-83-1
RTECS #:NP9625000
Minumum % Wt:10.
Maxumum % Wt:25.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:50 PPM; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:2-METHOXYETHANOL
CAS:109-86-4
RTECS #:KL5775000
Minumum % Wt:5.
Maxumum % Wt:10.
Other REC Limits:NON
E RECOMMENDED
OSHA PEL:S, 25 PPM
ACGIH TLV:S, 5 PPM; 9495

Ingred Name:ROSIN
CAS:8050-09-7
RTECS #:VL0480000
Minumum % Wt:30.
Maxumum % Wt:40.

=====
===== Hazards Identification =====
=====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHAL: EXPOS TO ROSIN SMOKE MAY
CAUSE DIZZINESS AND HEADACHE. MAY ALSO CAUSE AN ALLERGIC REACTION
SUCH AS THROAT AND RESP IRRIT

AND DAMAGE. INGESTION: CAN CAUSE

GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE DEFATTING DERMATITIS. MAY ALSO CAUSE AN ALLERGIC SKIN REACTION SUCH AS A RASH. EYES: CAN CAUSE SEVERE IRRITATION, TEARING, BLURRED VISION, ABSORPTION OF HARMFUL AMOUNTS OF MATERIAL RESULTING IN SIGNS. 2-METHOXYETHANOL IN LABORATORY INHALATION STUDIES, BIRTH DEFECTS, INCREASED FETAL LETHALITY, AND (EFTS OF OVEREXPOS)

Effects o

f Overexposure:HLTH HAZ: DELAYED FETAL DEVELOPMENT HAVE BEEN OBSERVED IN OFFSPRING OF FEMALE ANIMALS EXPOSED TO CONCENTRATIONS IN AIR OF 50 PPM AND HIGHER. REPEATED OVEREXPOSURE MAY CAUSE INJURY TO BONE MARROW AND BLOOD CELLS, KIDNEY, LIVER, AND TESTES.RECOMMENDATIONS: FOR WOMEN OF CHILDBEARING POTENTIAL: PERSONAL EXPOSURE LIMIT 2 PPM (8-HR TIME-WEIGHTED AVERAGE). SHORT-TERM EXPOS LIM 5 PPM (15-MIN, TIME-WEIGH TED AVERAGE EXCURSION, NO MORE THAN FOUR TIMES DAILY W/M

IN SEPARATION OF ONE

HOUR). AVOID ALL SKIN CONT. FOR OTHER PERS: PERS EXPOS LIM 5 PPM(8-HR TIME-WEIGHTED AVERAGE). AVOID ALL SKIN CONT.

Medical Cond Aggravated by Exposure:CHEMICAL HYPERSENSITIVITY AND DISEASES OF THE LUNGS.

=====
===== First Aid Measures =====

First Aid:INHAL:IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DFCLT, ADMINISTER OXYGEN.GET MED ATTN. INGEST:GIVE TWO(2) GLASSES OF WATER. INDUCE VOMIT IMMED BY STICKING FINGER DOWN

THROAT. CALL P HYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO UNCON PERSON. SKIN:WASH EXPOSED AREA W/SOAP AND /WATER. REMOVE CONTAMD CLOTHING. EYE:FLUSH W/LG AMTS OF WATER LIFTING UPPER/LOWER EYELIDS OCCASIONALLY. GET M ED ATTN.

=====
===== Fire Fighting Measures =====

Flash Point Method:TCC

Flash Point:=18.3C, 65.F

Lower Limits:1.5

Upper Limits:13.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

Fire Fighting Procedures:

USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:NONE.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR SUITABLE PROTECTIVE EQUIP. ABSORB LIQ ON PAPER/VERMICULITE/FLOOR ABSORBENT/OTHER ABSORBENT MATL & TRANSFER TO HOOD.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:OBSERVE PRECAUTIONS FOR FLA MM LIQ.

KEEP CNTNR CLSD WHEN NOT IN USE. STORE AWAY FROM IGNITION SOURCES. STORE IN COOL DRY AREA. STORE IN AREA WITH ADEQUATE VENTILATION. READ ALL CONTAINER LABELING. AVOID THE USE OF BRASS DRUM SPIGOTS. USE POLYETHYLENE, POLYPROPYLENE, TEFLON OR STAINLESS STEEL.

Other Precautions:AVOID SKIN CONTACT. SINCE EMPTY CNTNRS MAY RETAIN PROD RESIDUES (VAP/LIQ/SOLID)ALL LABELED HAZ PRECAUTIONS MUST BE OBSERVED. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO

NOT TAKE INTERNALLY.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF THRESHOLD LIMIT VALUE IS EXCEEDED OR VENTILATION IS NOT ADEQUATE TO REMOVE SMOKE FROM THE BREATHING ZONE, THEN A NIOSH APPROVED CARTRIDGE TYPE RESPIRATOR SHOULD BE WORN.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL &/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE LEVELS BELOW TLVS.

Protective Gloves:RESISTANT GLOVES-RUBBER,NEOPRENE,PLASTIC.

Eye Protection

:ANSI APPROVED CHEMICAL WORKERS GOGGLES AND FULL LENGTH FACESHIELD .

Other Protective Equipment:EMERGENCY EYE WASH & DELUGE SHOWER MEETING ANSI DESIGN CRITERIA .

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Boiling Pt:=85.C, 185.F

B.P. Text:@ 760 MM HG

Vapor Pres:30 MM HG @20C

Vapor Density:2.5(AIR=1)

Spec Gravity:0.918 @77F(H₂O=1)

Evaporation Rate & Reference:2.7 (BUAC=1)

Solubility in Water:MODERATE.

Appearance and Odor:CLEAR

R, AMBER LIQUID, NON-RESIDUAL ODOR.

Percent Volatiles by Volume:63

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

AS WITH ALL ORGANIC MATERIALS CONTAINING CARBON AND HYDROGEN, CONTACT WITH HIGHLY REACTIVE CHEMICAL OXIDANTS AND/OR IGNITION SOURCES SHOULD BE AVOIDED.

Stability Condition to Avoid:HEAT, SPARKS, AND OPEN FLAMES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY PRODUCE CO, CO*2, ABIETIC ACID, ALIPHATIC ALDEHYDES, TERPENES AND OTHER ACIDS.

===== Disposal Considerations =====

Waste Disposal Methods:DESTROY BY APPROVED INCINERATION OR DEPOSIT IN APPROVED LANDFILL. MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

===== Regulatory Information =====

SARA Title III Information:COMPONENTS PRESENT IN THIS PRODUCT AT LEVEL WHICH COULD REQUIRE REPORTING UNDER THE STATUTE ARE:

2-METHOXYETHA

NOL.

Federal Regulatory Information:TOXIC SUBSTANCES CONTROL ACT (TSCA)

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

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this

document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.