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HANDY AND HARTMAN -- FLUX,AMS 3410 G,0-F-499 D,TYPE B,AWS CLASS -- 3439-00-582-1110

Product ID:FLUX,AMS 3410 G,0-F-499 D,TYPE B,AWS CLASS

MSDS Date:01/16/1989

FSC:3439

NIIN:00-582-1110

MSDS Number: BLPFQ === Responsible Party ===

Company Name: HANDY AND HARTMAN

Address:850 THIRD AVE

City:NEW YORK

State:NY

ZIP:10022-6222 Country:US

Info Phone Num:212-752-3400/203-

259-8321

Emergency Phone Num:212-207-2632/203-259-8321

CAGE:JO825

=== Contractor Identification ===

Company Name: HANDY & HARMAN

Address:850 THIRD AVENUE

Box:City:NEW YORK

State:NY ZIP:10022 Country:US

Phone:212-752-3400

CAGE:73977

Company Name: HANDY AND HARTMAN

Address:850 THIRD AVE

City:NEW YORK

State:NY

ZIP:10022-6222 Country:US

Phone:212-752-3400

CAGE:JO825

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

Ingred Name: POTASSIUM FLUORIDE BORATE HYDROXIDE

CAS:12228-71-6

Fra

ction by Wt: 50 - 70%

Other REC Limits: NONE SPECIFIED

OSHA PEL:2.5 MG/M3 (MFR) ACGIH TLV:2.5 MG/M3 (MFR)

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000 Fraction by Wt: 0.05-.9%

Other REC Limits: NONE SPECIFIED

OSHA PEL:C, 2 MG/M3 ACGIH TLV:C 2 MG/M3; 9192

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: POTASSIUM FLUORIDE SOLUTION

CAS:7789-23-3

RTECS #:TT0700000 Fraction by Wt: 5 - 20%

Other REC Limits: NONE SPECIFIED

OSHA PEL:2.5 MG/M3 (MFR)

ACGIH TLV:2.5 MG/M3

(MFR)

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000 Fraction by Wt: 20 - 35%

Other REC Limits: NONE SPECIFIED

OSHA PEL:NOT RELEVANT ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 245 MG/KG FLUORIDES

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-FLUORIDES ARE POISONOUS IF

SWALLOWED.POTASSIUM HYDROXIDE IS

BOTH TOXIC(LD50,RAT=365 MG/KG) &

AN IRRITANT.PROLONGED SKIN CONTACT MAY CAUSE DERMATITIS.OVEREXPOSURE TO BF3 & HF GASES ON HEATING ARE TOXIC.B2O3 IS AN IRRITANT.CHRONIC-DERMATITIS.

Effects of Overexposure:EYES, SKIN AND RESPIRATORY TRACT IRRITATION. TOXIC IF SWALLOWED OR INHALED.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL.

First Aid:CALL

A PHYSICIAN IN ALL CASES.INHALATION:REMOVE TO FRESH AIR.GIVE CPR/OXYGEN IF NEEDED.EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES HOLDING EYELIDS OPEN.SKIN:WASH WITH WATER.INGESTION:IF CONSCIOUS,INDUCE VOMITING.NEVER GIVE ANYTHING BYMOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:NONE

Extinguishing Media:WATER

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SELF CONTAINED BREATHING APPARATUS

OPERATED IN POSITIVE PRESSURE MODE.

USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

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

Spill Release Procedures: AVOID CONTACT WITH EYES OR SKIN. AVOID HIGH TEMPERATURES. WEAR RUBBER GLOVES DURING SPILL CLEAN-UP. DILUTE AND WASH SPILLAGE WITH WATER.

Neutralizing Agent:LIME THEN MAGNESIUM HYDROXIDE/ALUMINUM SULFATE

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

Handling and Storage Precautions:S TORAGE-STORE IN A DRY PLACE.AVOID

HEATING ABOVE 1050F.

Other Precautions:THIS FLUX IS OFTEN USED WITH BRAZING FILLER METALS CONTAINING CD. CD OXIDE FUMES IS A GREATER HAZARD THAN FLUORIDE FUME FROM FLUX.ZN OXIDE FUME MAY ALSO BE EMITTED.PRODUCTS OF COMBUSTION FROM TORCH/FU RNACE MAY BE TOXIC NO2, O3 & CO GASES.

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

Respiratory Protection: NONE FOR BRAZING IN PROPERLY VENTILATED AREA. IN CONFINED SPACE USE AN AIR

LINE RESPIRATOR OR HOSE MASK, NIOSH/MSHA

APPROVED HOSE TYPE C OR SELF-CONTAINED AIR RESPIRATOR.

Ventilation:LOCAL EXHAUST/MECHANICAL

Protective Gloves:LEATHER WELDING

Eye Protection: SAFETY GOGGLES

Other Protective Equipment:NON-FLAMMABLE PROTECTIVE CLOTHING, PLASTIC FRAME SAFETY SPECTACLES WITH SIDE SHIELDS-FILTER LENSES SHADE # 3 OR # 4

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

========= Physical/Chemical Properties ==========
HCC:N1 Melt/Freeze Pt:M.P/F.P Text:1050F,566C Spec Gravity:1.67 pH:8.5 Solubility in Water:SOLUBLE Appearance and Odor:WHITE PASTE - NO ODOR
======== Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES NONE KNOWN Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES Hazardous Decomposition Products:EXCESSIVE FUMES (BF3)
====== Disposal Considerations ===========

upplemental Safety and Health

Waste Disposal Methods:ALL EFFLUENT INGREDIENTS ARE INORGANIC. LOCAL REGULATIONS MAY REQUIRE THE REMOVAL OF FLUORIDES AND SUSPENDED TRACE METALS BEFORE DISCHARGE OF FINAL EFFLUENT. ADDITION OF LIME FOLLOWED BY MG(OH)2/AL2(S O4)3, THEN FILTRATION IS A SIMPLE METHOD.

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