View NSN Online: https://aerobasegroup.com/nsn/3439-01-142-2423

Product ID:FLUX 23 MSDS Date:12/03/1992 FSC:3439 NIIN:01-142-2423 MSDS Number: BXVQX === Responsible Party === Company Name: SUPERIOR FLUX AND MFG CO Address:95 ALPHA PARK City:CLEVELAND State:OH ZIP:44143 Country:US Info Phone Num:216-461-3315 Emergency Phone Num:216-461-3315/800-424-9300(CHEMTREC) CAGE:876 18 === Contractor Identification === Company Name: SUPERIOR FLUX AND MFG CO Address:6615 PARKLAND BLVD City:SOLON (FORMALLY CLEVELAND) State:OH ZIP:44139 Country:US Phone:440-349-3000 CAGE:87618 Ingred Name: ZINC CHLORIDE (SARA 313) (CERCLA) CAS:7646-85-7 RTECS #: ZH1400000 Fraction by Wt: 30 - 45% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1MG/M3/2STEL(FUME)95 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred

Name: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA 302/313) (CERCLA) CAS:7647-01-0 RTECS #:MW4025000 Fraction by Wt: 15 - 25% Other REC Limits:NONE RECOMMENDED **OSHA PEL:C 5 PPM** ACGIH TLV:C 5 PPM; 9495 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name: ACETIC ACID (CERCLA) CAS:64-19-7 RTECS #:AF1225000 Fraction by Wt: 2 - 4% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 PPM ACGIH TLV:10 PPM/15 STEL; 9495 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:WATER (NON-HAZARDOUS SUBSTANCE)

CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: BALANCE Other REC Limits:NONE RECOMMENDED **OSHA PEL:NOT RELEVANT** ACGIH TLV:NOT RELEVANT

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: TARGET ORGANS: EYES, SKIN, RESPIRATORY

& GI TRACTS. ACUTE- CORROSIVE. CAN CAUSE EYES, SKIN, RESPIRA TORY &

GI TRACTS SEVERE IRRITATION & BURNS, MAY CAUSE BLINDNESS, IF INGESTED, CAUSES SEVERE BURNS & PA IN OF GI TRACTS. IF INHALED DEEPLY, EDEMA OF LUNGS MAY OCCUR. CHRONIC- SKIN IRRITATION, LUNG INFLAMMATION.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure: SEVERE IRRITATION AND BURNS, COUGHING, CHOKING, CHEST PAIN, DIFFICULTY IN BREATHING, DIFFICULTY IN SWALLOWING, SEVERE ABDOMINAL PAIN, NAUSEA, VOMITING, DIARRHEA, COLLAPSE AND **UNCONSCIOUSNESS** 

Medical Con

d Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION SUCH AS ASTHMA, BRONCHITIS, EMPHYSEMA MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid:GET MEDICAL CARE IMMEDIATELY IN ALL CASES. SPEED IS ESSENTIAL TO AVOID BLINDNESS. EYES/SKIN:IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. KEEP EYELIDS OPEN. INHALED:REMOVE TO F RESH

AIR . PROVIDE CPR/OXYGEN IF NEEDED. ORAL: IFCONSCIOUS, DRINK SEVERAL GLASSES OF MILK OR WATER. DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR.

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROV

ED SELF-CONTAINED BREATHING APPARATUS WITH FULL

FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:MAY FORM FLAMMABLE/EXPLOSIVE HYDROGEN GAS UPON CONTACT WITH MOST METALS. CLOSED CONTAINER MAY RUPTURE. MAY RELEASE HYDROGEN CHLORIDE GAS.

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. DO NOT RELEASE INTO SEWER. REMOVE LARGE SPILLS WITH PUMP. NEUTRALIZE

SMALL SPILLS WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN CONTAINER FOR DISPOSAL. WASH SPILL AREAWITH WATER

Neutralizing Agent:SODA ASH (SODIUM CARBONATE), LIME (CALCIUM HYDROXIDE), LIMESTONE (CA CARBONATE)

Handling and Storage Precautions:STORE IN COOL, WELL VENTILATED PLACE, IN CORROSION-PROOF AREA, AWAY FROM INCOMPATIBLES. KEEP CONTAINERS TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILD REN.

Other Precautions:DANGER! CORROSIVE. DO NOT GET IN EYES, ON SKIN/CLOTHING. AVOID BREATHING VAPORS/MIST/GAS. USE WITH ADEQUATE VENTILATION. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. USE NON-SPARKING TOOLS AROUND CONTA INERS WHERE HYDROGEN GAS MAY BE PRESENT.

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

Respiratory Protection:USE A NIOSH-APPROVED RESPIRATOR WHERE GAS/SPRAY MAY BE GENERATED. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARAT

US OPERATED IN POSITIVE PRESSURE MODE WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDE D OR UNKNOWN.

Ventilation: PROVIDE GENERAL VENTILATION OR LOCAL EXHAUST TO MEET OSHA PERMISSIBLE EXPOSURE LIMITS (OSHA PEL).

Protective Gloves:NATURAL RUBBER OR NEOPRENE

Eye Protection: CHEMICAL SAFETY GOGGLES AND FACE SHIELD

Other Protective Equipment: USE RUBBER SPLASH APRON AND RUBBER BOOTS.

EYEWASH AND SAFETY SHOWER SHOULD BE LOCATED NEARBY.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRAC TICES AND

RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN.

HCC:C1

NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:216F,102C Spec Gravity:1.3 Evaporation Rate & amp; Reference:0.7 (WATER=1) Solubility in Water:UNLIMITED Appearance and Odor:SLIGHTLY COLORED LIQUID - SHARP, IRRITATING ODOR Percent Vol atiles by Volume:62

Stability Indicator/Materials to Avoid:YES

METALS, OXIDIZING AGENTS, REDUCING AGENTS, BASES, CYANIDES, COMBUSTIBLE MATERIALS

Stability Condition to Avoid:CONTACT WITH METALS, EXCESSIVE HEAT AND COLD

Hazardous Decomposition Products:HYDROGEN CHLORIDE GAS, ZINC CHLORIDE FUMES, ZINC OXIDE MAY BE FORMED.

Waste Disposal Methods:DIS

## POSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. NEVER DISCHARGE DIRECTLY TO SEWERS OR SURFACE WATERS.

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