

FLUX 970,16545

MSDS Number

BXHRK

National Stock Number

3439-00D003551

Product Name

FLUX 970,16545

Manufacturer

CERTANIUM ALLOYS AND RESEARCH CO

Product Identification

Product ID: FLUX 970,16545

MSDS Date: 12/08/1993

FSC: 3439

NIIN: 00D003551

MSDS Number: BXHRK

Responsible Party

CERTANIUM ALLOYS & RESEARCH CO

4500 EUCLID AVENUE

CLEVELAND , OH 44103

US

Emergency Phone: 216-391-8300

Info Phone: 216-391-8300

Preparer: MLH

Cage: 61404

Contractor

CERTANIUM ALLOYS & RESEARCH CO

CLEVELAND, OH 44103-1395

US

216-391-8300

Cage: 61404

Ingredients

POTASSIUM FLUORIDE

CAS: 7789-23-3

RTECS: TT0700000

Fraction By Weight: 10 - 30%

OSHA PEL 2.5 MG/M3 AS F

ACGIH TLV: 2.5 MG/M3 AS F

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 10 - 40%

OSHA PEL NOT RELEVANT

ACGIH TLV: NOT RELEVANT

POTASSIUM TETRAFLUOBORATE

CAS: 14075-53-7

RTECS: ED2800000

Fraction By Weight: 1 - 20%

OSHA PEL2.5 MG/M3 AS F

ACGIH TLV: 2.5 MG/M3 AS F

POTASSIUM HYDROGEN FLUORIDE

CAS: 7789-29-9

RTECS: TS6650000

Fraction By Weight: 10 - 30%

OSHA PEL2.5 MG/M3 AS F

ACGIH TLV: 2.5 MG/M3 AS F

BORIC ACID

CAS: 10043-35-3

RTECS: ED4550000

Fraction By Weight: 30 - 60%

OSHA PEL10 MG BORATES/M3

ACGIH TLV: 5 MG BORATES/M3

POTASSIUM BORATE/TETRABORATE

CAS: 1332-77-0

Fraction By Weight: 10 - 30%

Hazards

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.

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, CNS, RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE & POISON! HARMFUL IF SWALLOWED. MAY CAUSE EFFECTS ON CNS. MAY CAUSE EYE BURNS. SKIN CONTACT CAUSES IRRITATION. OVEREXPOSURE TO WELDING & BRAZING FUMES MAY RESULT IN DIZZINESS, IRRITATION OF UPPER RESPIRATORY TRACT. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, BURNS, NAUSEA, VOMITING, DIZZINESS, HEADACHE, PAIN, DRYNESS OF NOSE AND THROAT

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED CNS OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid

First Aid:CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. CALL PHYSICIAN. SKIN:WASH WITH SOAP & WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK WATER & INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS

CONVULSIONS.

Fire Fighting

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 PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. MAY FORM HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:TOXIC GASES MAY BE FORMED.

Accidental Release

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA. SPILLS SHOULD BE ABSORBED WITH VERMICULITE OR OTHER INERT MATERIAL, THEN PLACED IN A CONTAINER FOR CHEMICAL WASTE. DO NOT RELEASE INTO DRAINS.

Neutralizing Agent:NOT RELEVANT

Handling

Handling and Storage Precautions:STORE IN ORIGINAL CONTAINERS AWAY FROM INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. POISON. DO NOT INGEST.

Other Precautions:AVOID CONTACT WITH EYES, SKIN AND CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. AVOID PROLONGED OR REPEATED BREATHING OF DUST, GAS, VAPOR OR FUMES.

Exposure Controls

Respiratory Protection:USE NIOSH APPROVED SUPPLIED AIR RESPIRATORY PROTECTION OR RESPIRABLE FUME RESPIRATOR WHEN WELDING, BRAZING OR SOLDERING IN CONFINED SPACE OR WHERE LOCAL EXHAUST VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE GENERAL & LOCAL EXHAUST AT FLAME TO KEEP FUMES AND GASES BELOW TLV'S IN THE WORKER'S BREATHING ZONE & GENERAL AREA.

Protective Gloves:WELDER'S GLOVE

Eye Protection:SAFETY GOGGLES/GLASSES WITH SIDE SHIELDS

Other Protective Equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

Chemical Properties

HCC:F6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:>220F,>104C

Melt/Freeze Pt:M.P/F.P Text:10F,-12C

Vapor Pres:20

Vapor Density:0.6

Spec Gravity:1.54

pH:8.4

Evaporation Rate & Reference:0.2 (WATER=1)

Solubility in Water:99%

Appearance and Odor:RED PASTE

Percent Volatiles by Volume:41

Stability

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, ALKALIES, AMMONIA

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:WELDING FUMES (OXIDES OF METAL BEING WELD) AND GASES SUCH AS OZONE, CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES...

Disposal

Waste Disposal Methods:DISCHARGE, TREATMENT OR DISPOSAL MAY BE SUBJECT

TO FEDERAL, STATE OR LOCAL REGULATIONS. CONTRACT WITH A LICENSED
CHEMICAL DISPOSAL AGENCY.

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