

R & D 601B - SILVER BRAZING FLUX (TYPE B)

MSDS Number

CJSFW

National Stock Number

3439-00-582-1110

Product Name

R & D 601B - SILVER BRAZING FLUX (TYPE B)

Manufacturer

R AND D METALS AND CHEMICALS INC

Product Identification

Product ID: R & D 601B - SILVER BRAZING FLUX (TYPE B)

MSDS Date: 11/12/1997

FSC: 3439

NIIN: 00-582-1110

Status Code: A

MSDS Number: CJSFW

Responsible Party

R & D METALS AND CHEMICALS INC

201 PERIMETER PK SUITE C

KNOXVILLE, TN 37922

US

Emergency Phone: 423-531-6065

Info Phone: 800-645-7476/423-531-6065

Cage: 56406

Contractor

R & D METALS & CHEMICALS, INC

22533

KNOXVILLE, TN 37922-2233

US

423-531-2044

Cage: 56406

Ingredients

BORIC ACID

CAS: 10043-35-3

RTECS: ED4550000

POTASSIUM FLUORIDE

CAS: 7789-23-3

RTECS: TT0700000

POTASSIUM TETRABORATE TETRAHYDRATE

CAS: 12045-78-2

Hazards

Health Hazards Acute and Chronic: ACUTE: IRRITATION TO NOSE, THROAT, RESPIRATORY TRACT; PNEUMONITIS & PULMONARY EDEMA. THIS PRODUCT CAN PRODUCE IRRITATION, PARTICULARLY ON ABRADED SKIN. SOME COMPONENTS OF THIS PRODUCT ARE POTENTIALLY TOXIC IF INGESTED. CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION, CONVULSIONS & COMA. CHRONIC: IMPAIRED PULMONARY FUNCTION, LIVER & KIDNEY DAMAGE & FLUOROSIS (A BONE DISEASE CHARACTERIZED BY OSTEOSCLEROSIS). THIS PRODUCT CAN CAUSE EYE IRRITATION, OR INJURY UPON PROLONGED CONTACT.

Explanation of Carcinogenicity: NONE PROVIDED BY MFR, BUT NOT FOUND ON THE NTP, IARC, OR OSHA LISTS OF CARCINOGENIC MATERIALS.

Effects of Overexposure: ACUTE: COUGH, NOSE BLEEDS, CHEST TIGHTNESS, CHILLS, FEVER, & TEARING. INGESTION MAY CAUSE NAUSEA, VOMITING, DIARRHEA, CRAMPS, ABDOMINAL PAIN, GASTROINTESTINAL IRRITATION, TACHYCARDIA. CHRONIC: ABDOMINAL PAIN, & CRAMPS. MAY CAUSE MOTTLED TEETH, PAIN, AND LOSS OF MOBILITY IN JOINTS.

Medical Condition Aggravated by Exposure: NONE PROVIDED BY MFR.

First Aid

First Aid: INHALATION: REMOVE SUBJECT FROM AREA, ADMINISTER OXYGEN & SEEK MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS WITH LARGE QUANTITIES OF WATER FOR AT LEAST 5 MINS. EYES: FLUSH AFFECTED AREAS WITH WATER FOR AT LEAST 15 MINS. INGESTION: IF SUBJECT IS CONSCIOUS, INDUCE VOMITING. IF UNCONSCIOUS OR CONVULSIVE, SEEK IMMEDIATE MEDICAL ASSISTANCE.

Fire Fighting

Extinguishing Media: NONE PROVIDED BY MFR.

Fire Fighting Procedures: NONE PROVIDED BY MFR.

Unusual Fire/Explosion Hazard: NONE.

Accidental Release

Spill Release Procedures: ISOLATE SPILLED MATERIAL AND TRANSFER TO IMPERVIOUS CONTAINERS. AVOID CONTACT WITH SKIN, EYES, AND MUCOUS MEMBRANES. WEAR APPROPRIATE PROTECTIVE EQUIPMENT (E.G. GLOVES, GOGGLES) DURING CLEANUP AND DISPOSAL.

Neutralizing Agent: NONE PROVIDED BY MFR.

Handling

Handling and Storage Precautions: STORE IN COOL, DRY PLACE AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions: NONE PROVIDED BY MFR.

Exposure Controls

Respiratory Protection: NIOSH-APPROVED RESPIRATOR IF HIGH LEVEL OF EXPOSURE

Ventilation: LOCAL EXHAUST

Protective Gloves: RECOMMENDED

Eye Protection: ADEQUATE TO PREVENT EYE CONTACT

Other Protective Equipment: NONE PROVIDED BY MFR.

Work Hygienic Practices: NONE PROVIDED BY MFR.

Supplemental Safety and Health

EFFLUENTS CONTAINING RESIDUES OF THE PRODUCT MAY BE REMOVED THROUGH CHEMICAL PRECIPITATION BY ADDITION OF LIME (CALCIUM OXIDE) FOLLOWED BY MAGNESIUM HYDROXIDE OR ALUMINUM SULFATE WITH REMOVAL OF THE RESULTING PRECIPITATE BY SETTLING AND/OR FILTRATION.

Chemical Properties

HCC: N1

Melt/Freeze Pt: =566.C, #####F

Spec Gravity: 1.67

pH: 8.0

Solubility in Water: SOLUBLE

Appearance and Odor: DARK BROWN PASTE, ODORLESS

Stability

Stability Indicator/Materials to Avoid: YES

ACETIC ANHYDRIDE; ALKALI AND ALKALI EARTH METALS, ZIRCONIUM
Stability Condition to Avoid:HIGH TEMPERATURES
Hazardous Decomposition Products:HYDROGEN FLUORIDE, BORAN TRI-FLUORIDE,
AND/OR BORON OXIDE
Conditions to Avoid Polymerization:WILL NOT OCCUR

Disposal

Waste Disposal Methods:LOCAL REGS MAY REQUIRE THE REMOVAL OF FLUORIDES
PRIOR TO DISCHARGE OF EFFLUENTS CONTAINING RESIDUES. IF REMOVED BY
PRECIPITATION, THEN TEST TO DETERMINE WHETHER IT IS A HAZARDOUS
WASTE ACCORDING TO APPLICABLE REGULATIONS. IF SO, IT SHOULD BE
DISPOSED OF ONLY THROUGH A LICENSED DISPOSAL FIRM AT A SECURE
CHEMICAL LANDFILL. SEE SUPPL DATA.

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