R & D METALS AND CHEMICALS, INC -- SILVER SOLDER FLUX NO.601/1800 -- 3439-00-288-0868

Product ID:SILVER SOLDER FLUX NO.601/1800 MSDS Date:01/07/1997 FSC:3439 NIIN:00-288-0868 Status Code:A MSDS Number: CHVTR === Responsible Party === Company Name: R & D METALS AND CHEMICALS, INC Address:201C PERIMETER PK SUITE C Box:22533 City:KNOXVILLE State:TN ZIP:37922 Country: US Info Phone Num:423-531-6065 Emergency Phone Num:423-531-6065 CAGE: JO627 === Contractor Identification === Company Name: R & D METALS & CHEMICALS, INC Address:201C PERIMETER PARK Box:22533 City:KNOXVILLE State:TN ZIP:37922-2233 Country:US Phone: 423-531-6065 / FAX: 423-531-2044 CAGE:56406 Company Name: R & D METALS AND CHEMICALS INC Address:201C PERIMETER PARK Box:22533 City:KNOXVILLE State:TN ZIP:37922 Country:US Phone:800-646-7476 CAGE: JO627

======== Composition/Information on Ingredient

S ============

Ingred Name:POTASSIUM FLUOROHYDROBORATE CAS:14075-53-7 RTECS #:ED2800000 Fraction by Wt: 30-45% Other REC Limits:NONE RECOMMENDED OSHA PEL:2.5 MG/M3 AS F ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:POTASSIUM TETRABORATE CAS:1332-77-0 Fraction by Wt: 15-25% Other REC Limits:TLV 5.0 MG/M3

Ingred Name:BORIC ACID CAS:10043-35-3 RTECS #:ED4550000 Fraction by Wt: 15-30% Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG BORATES/M3 ACGIH TLV:5 MG BORATES/M3

Ingred Name:POTASSIUM FLUOBORATE CAS:14075-53-7 RTECS #:ED2800000 Fraction by Wt: 7-15% Other REC Limits:NONE RECOMMENDED OSHA PEL:2.5 MG/M3 AS F ACGIH TLV:2.5 MG/M3 AS F

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:ACUTE: MAY CAUSE SALIVATION, COUGHING, CHOKING AND CHILLS. CHRONIC: MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS AND STIFF JOINTS.

Ex

planation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER. Effects of Overexposure:ACUTE: SALIVATION, COUGHING, CHOKING, CHILLS. CHRONIC: WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS AND STIFF JOINTS.

Medical Cond Aggravated by Exposure: ANY WEAKNESS OF THE LUNGS, KIDNEYS, OR LIVER WILL BE AGGRAVATED.

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. SKIN: REMOV

E CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. IF ADVERSE SYMPTOMS DEVELOP, GET MEDICAL ATTE NTION. INHALATION: MOVE TO FRESH AIR. IF ADVERSE SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. INGESTION: DRINK WATER OR MILK. GET MEDICAL ATTENTION.
======================================
Flash Point:NONE Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:NORMAL CAUTION WHEN DEALING WITH FLUX CHEMICALS. Unusual Fire/Explosion Hazard:WILL RELEASE BORON TRIOXIDE FUMES UPON DECOMPOSITION.
======================================
Spill Release Procedures:CLEAN UP PASTE AND FLUSH REMAINING MATERIAL WITH LOTS OF WATER. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
======================================
Handling and Storage Precautions:DO NOT STORE IN GLASS OR PORCELAIN CONTAINERS. AVOID CONTACT WITH EYES, SKIN, CLOTHING. WASH AFTER
HANDLING. Other Precautions: KEEP CONTAINERS AWAY FROM EXCESSIVE HEAT.
======================================
 Respiratory Protection: IN THE ABSENCE OF PROPER VENTILATION USE NIOSH APPROVED RESPIRATOR. Ventilation: PROVIDE ADEQUATE VENTILATION TO REMOVE FUMES. USE LOCAL EXHAUST AND/OR MECHANICAL (GENERAL) VENTILATION AS NECESSARY. Protective Gloves: WEAR RUBBER OR PLASTIC COATED GLOVES. Eye Protection: WEAR SAFETY GOGGLES. Other Protective Equipment: WEAR RUB BER APRON AS NEEDED TO PROTECT CLOTHING AND SKIN. Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED COLTHING BEFORE USING. Supplemental Safety and Health NONE
======================================
HCC:N1 Spec Gravity:1.6 Solubility in Water:MODERATE Appearance and Odor:WHITE, ODORLESS PASTE. Percent Volatiles by Volume:30

bility Indicator/Materials to Avoid:YES GLASS OR PROCELAIN. Stability Condition to Avoid:EXCESSIVE HEAT. Hazardous Decomposition Products:B2O3 FUMES, KBF4 Conditions to Avoid Polymerization:WILL NOT OCCUR.

Waste Disposal Methods: DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by element s 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.