R & D METALS AND CHEMICALS INC -- SILVER SOLDER FLUX NO. 601 -- 3439-00-350-1427

========== Product Identification ==========

Product ID:SILVER SOLDER FLUX NO. 601
MSDS Date:05/25/1995
FSC:3439
NIIN:00-350-1427
Status Code:A
MSDS Number: CLMLL
=== Responsible Party ===
Company Name:R & D METALS AND CHEMICALS INC
Address:201 PERIMETER PK SUITE C
Box:22533
City:KNOXVILLE
State:TN
ZIP:37922-2233
Country:US
Info Phone Num:865-531-6065 / FAX: 865-531-2044
Emergency Phone Num:865-531-6065
CAGE:56406
=== 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
Contract Num:SP0490-96-D-41080
CAGE:56406

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

Ingred Name:POTASSIUM FLUOROBORATE
CAS:14075-53-7
RTECS #:ED2800000
Minumum % Wt:30.
Maxumu

m % Wt:45.
ACGIH TLV:2.5 MG/M3

Ingred Name:DIPOTASSIUM TETRABORATE
CAS:1332-77-0
Minumum % Wt:15.
Maxumum % Wt:25.
ACGIH TLV:5 MG/M3

Ingred Name:BORIC ACID
CAS:10043-35-3
RTECS #:ED4550000
Minumum % Wt:15.
Maxumum % Wt:30.
ACGIH TLV:10 MG/M3

Ingred Name:POTASSIUM FLUOBORATE CAS# 14075-53-7
Minumum % Wt:7.
Maxumum % Wt:15.
ACGIH TLV:2.5 MG/M3

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

Health Hazards Acute and Chronic:1. ACUTE OVEREXPOSURE: SALIVATION, COUGHING,
CHOKING & CHILLS. 2. CHRONIC OVEREXPOSURE: MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS & STIFF JOINTS.
Effects of Overexposure:1. ACUTE OVEREXPOSURE: SALIVATION, COUGHING, CHOKING & CHILLS. 2. CHRONIC OVEREXPOSURE: MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS & STIFF JOINTS.
Medical Cond Aggravated by Exposure:ANY WEAKNESS OF THE LUNGS, KIDNEYS OR LIVER WILL BE AGGRAVATED.

========== First Aid Measures ==========

First Aid:INHALA
TION: REMOVE FROM CONTAMINATED AREA. EYES: WASH THOROUGHLY WITH WATER AND CALL A PHYSICIAN. SKIN: WASH THROUGHLY WITH WATER. INGESTION: DRINK WATER OR MILK AND CALL PHYSICIAN.

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

Flash Point:NONE
Extinguishing Media:NOT NEEDED
Fire Fighting Procedures:NORMAL CAUTION WHEN DEALING WITH FLUX CHEMICALS.
Unusual Fire/Explosion Hazard:WILL RELEASE BORON TRIOXIDE FUMES UPON DECOMPOSITION.

========== Accidental

Release Measures ==========

Spill Release Procedures:CLEAN UP PASTE AND FLUSH REMAINING MATERIAL WITH LOTS OF WATER.

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

Handling and Storage Precautions:DO NOT STORE IN GLASS OR PORCELAIN CONTAINERS. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.
Other Precautions:KEEP CONTAINERS AWAY FROM EXCESSIVE HEAT.

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

Resp
iratory Protection:NIOSH APPROVED RESPIRATOR IN ABSENCE OF PROPER VENTILATION.
Protective Gloves:RUBBER OR PLASTIC COATED.
Eye Protection:SAFETY GOGGLES.
Other Protective Equipment:RUBBER APRON.
Supplemental Safety and Health
TRADE NAME AND SYNONYMS: SILVER SOLDER FLUX NO. 601. CHEMICAL FAMILY: SILVER BRAZING PASTE FLUX.

========== Physical/Chemical Properties ==========

HCC:N1
Spec Gravity:1.6 (H2O=1)
Evaporation Rate & Reference:0.3
Solubility in Water:MODERATE
Appearance and Odor:WHITE ODERLESS PASTE
Percent Volatiles by Volume:30

========== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
GLASS OR PORCELAIN.
Stability Condition to Avoid:EXCESS HEAT.
Hazardous Decomposition Products:B203 FUMES, K8F4.

========== Disposal Considerations ==========

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH LOCAL STATE EPA REGULATIONS.

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the compiling agencies):
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