

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

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Product Identification  
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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

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Composition/Information on Ingredients  
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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

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===== 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.

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

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

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===== 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.

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===== 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 =====

Respiratory 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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