

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

I

nfo 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.

Maxumum

% 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, C
HOKING & 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:INHALAT
ION: 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.

===== 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 =====

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

A

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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he compiling agencies):

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