

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.
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.

Disclaimer (provided with this information by t

he compiling agencies):

This information is formulated for use by elements 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.