

R AND D METALS AND CHEMICALS INC -- SILVER SOLDER FLUX NO. 601 -- 3439-00-255-4576
===== Product Identification =====

Product ID:SILVER SOLDER FLUX NO. 601
MSDS Date:01/02/1998
FSC:3439
NIIN:00-255-4576
Status Code:A
MSDS Number: CHYXZ
=== Responsible Party ===
Company Name:R AND D METALS AND CHEMICALS INC
Address:201 PERIMETER PK SUITE C
Box:22533
City:KNOXVILLE (FORMALLY IN PLAINVIEW,NY)
State
:TN
ZIP:37922
Country:US
Info Phone Num:423-531-6065
Emergency Phone Num:423-531-6065
CAGE:KO887
=== 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 AND D METALS AND CHEMICALS INC
Address:201 PERIMETER PK SUITE C
Box:22533
City:KNOXVILLE (FORMALLY IN PLAINVIEW,NY)
State:TN
ZIP:37922
Country:US
Phone:423-531-6065
CAGE:KO

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

Ingred Name:POTASSIUM FLUOROHYDROBATE

CAS:14075-53-7

RTECS #:ED2800000

Fraction by Wt: 35-45%

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

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:ACUTE: OVEREXPOSURE MAY CAUSE

SALIVATION, COUGHING, CHOKING, CHILLS. CHRONIC: MAY CAUSE WEIG

HT

LOSS, BRITTLE BONES, ANEMIA, WEAKNESS, STIFF JOINTS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SALIVATION, COUGHING, CHOcking, CHILLS, WEIGHT LOSS, BRITTLE BONES, ANEMIA, WEAKNESS, STIFF JOINTS.

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

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR. INGESTION> DRINK WATER OR MILK. GET ME DICAL ATTENTION.

=====
===== 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 R

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

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

=====
===== 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:WEAR NIOSH APPROVED RESPIRATOR IN ABSENCE OF PROPER VENTILATION.

Ventilation:PROVIDE LOCAL EXHAUST AND/OR MECHANICAL (GENERAL) AS NECESSARY TO REMOVE FUMES TO WITHIN RECOMMENDED LIMITS.

Protective Gloves:WEAR RUBBER OR PLASTIC COATED GLOVES.

Eye Protection:WEAR SAFETY GOGGLES.

Other Protective Equipment:WEAR RUBBER APRON TO PROTECT SKIN AND CLOTHING.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSING.

Supplemental Safety and Health

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

HCC:N1

Spec Gravity:1.6

Evaporation Rate & Reference:0.3

Solubility in Water:MODERATE

Appearance and Odor:WHITE ODORLESS PASTE.

Percent Volatiles by Volume:30

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

Stability Indicator/Materials to Avoid:YES

GLASS OR PORCELAIN.

Stability Condition to Avoid:EXCESSIVE HEAT.

Hazardous Decomposition Products:B2O3 FUMES, KBF4.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

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

Disclaimer (provided with this information by the 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.