

R & D METALS AND CHEMICALS INC -- GP-43, WELDING FLUX -- 3439-00-288-0868

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Product Identification
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Product ID:GP-43, WELDING FLUX

MSDS Date:02/26/1998

FSC:3439

NIIN:00-288-0868

Status Code:A

MSDS Number: CLCTY

=== 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

:865-531-6065/800-645-7476

Emergency Phone Num:423-531-6065

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:SP0490-01-M-XC40

CAGE:56406

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Composition/Information on Ingredients
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Ingred Name:POTASSIUM FLUOROHYDROBORATE (POTASSIUM
TRIOXOHYDROXYTETRAFLUOROTRIBORATE)

CAS:12228-71-6

Mininum

% Wt:30.
Maxumum % Wt:45.
ACGIH TLV:2.5 MG/M3

Ingred Name:POTASSIUM 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
RTECS #:ED2800000
Minumum % Wt:7.
Maxumum % Wt:15.
ACGIH TLV:2.5 MG/M3

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

Health Hazards Acute and Chronic:ACUTE: SALIVATION,
COUGHING, CHOKNG &
CHILLS. CHRONIC: MAY CAUSE WEIGHT LOSS, BRITTLE BONES, ANEMIA,
WEAKNESS & STIFF JOINTS.
Effects of Overexposure:ACUTE: SALIVATION, COUGHING, CHOKNG & CHILLS.
CHRONIC: 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:INHALATION: 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
DECOMPOSTION.

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===== Accidental Release Measures =====

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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. KEEP CONTAINERS AWAY FROM EXCESSIVE HEAT.

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

Respiratory Protection:NIOSH APPROVED RESPIRATOR IN A BSENCE OF PROPER VENTILATION.

Ventilation:TO REMOVE FUMES: LOCAL EXHAUST, MECHANICAL (GENERAL).

Protective Gloves:RUBBER OR PLASTIC COATED

Eye Protection:SAFETY GOGGLES

Other Protective Equipment:RUBBER APRON.

Supplemental Safety and Health

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

HCC:T6

Spec Gravity:1.6

Evaporation Rate & Reference:0.3

Solubility in Water:MODERATE

Appearance and Odor:WHITE ODERLESS PASTE.

Percent Volatiles by Volume:30

==== S
tability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
GLASS OR PORCELAIN.

Stability Condition to Avoid:EXCESS HEAT.

Hazardous Decomposition Products:BORON TRIOXIDE FUMES. KBF4.

==== Disposal Considerations =====

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

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