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## R & D METALS & CHEMICALS INC -- WELDING FLUX, SOLDERING LIQUID FORM FLUX 3439-01-044-4144

============= Product Identification ========================

Product ID:WELDING FLUX, SOLDERING LIQUID FORM FLUX

MSDS Date:02/20/1998

FSC:3439

NIIN:01-044-4144

MSDS Number: CGLTN === Responsible Party ===

Company Name: R & D METALS & CHEMICALS INC

Address:75 SHEER PLAZA

City:PLAINVIEW

State:NY

ZIP:11803-4205 Country:US Info Phone N

um:516-694-0920

Emergency Phone Num:516-694-0920

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

CAGE:56406

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

Ingred Name: HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA 302/313)

(CERCLA) CAS:7647-01-0

RTECS #:MW4025000 Fraction by Wt: 30 - 45%

Other REC Limits:N

ONE RECOMMENDED OSHA PEL:C 5 PPM ACGIH TLV:C 5 PPM; 9596 EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:ZINC CHLORIDE (SARA 313) (CERCLA)

CAS:7646-85-7

RTECS #:ZH1400000 Fraction by Wt: 15 - 25%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1MG/M3/2STEL(FUME)96

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name: ACETIC ACID (CERCLA)

CAS:64-19-7

RTECS #:AF1225000 Fraction by Wt: 2 - 4%

Other REC Limits: NONE RECOMMENDED

**OSHA PEL:10 PPM** 

ACGIH TLV:10 PPM/15 STEL; 9596

EPA R

pt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS UNKNOWN.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACTS. ACUTE- CORROSIVE. ZINC CHLORIDE CAN BURN GASTROINTESTINAL TRACT IF INGESTED. MAY CAUSE BURNS IF EYE CONTACT OCCURS. MAY CAUSE

EYE DAM GE. CAN CAUSE SKIN BURNS. MAY

CAUSE PULMONARY EDEMA IF INHALED. CHRONIC- UNKNOWN.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure:IRRITATION, BURNS, PAIN, VOMITING, NAUSEA, BLINDNESS

Medical Cond Aggravated by Exposure:UNKNOWN.

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SEE A DOCTOR. SKIN:IMMEDIATELY WASH WITH PLENTY OF

WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CP R/OXYGEN IF NEEDED. ORAL:IF CONSCIOUS, DRINK WATER OR MILK. GET MEDICAL ATTENTION IMMEDIATELY.
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Flash Point:NONE Extinguishing Media:USE CARBON DIOXIDE, FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. Unusual Fire/Explosion Hazard:WILL REL EASE HYDROCHLORIC ACID FUMES UPON DECOMPOSITION.
=========== Accidental Release Measures ==========
Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. NEUTRALIZE WITH SODA ASH OR SODIUM BICARBONATE. VENTILATE AREA. TRANSFER TO PROPER CONTAINER FOR DISPOSAL. WASH SPILL SITE WITH WATER. Neutralizing Agent:SODIUM BICARBONATE, SODA ASH
=========== Handling and Storage =============
Handling and Storage Precautions:KEEP AWAY FROM HEAT AND STORE I
PLASTIC OR GLASS CONTAINERS, AWAY FROM INCOMPATIBLES. Other Precautions:WASH THOROUGHLY AFTER HANDLING. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH EYES AND SKIN. DO NOT BREATHE FUMES. WASH CLOTHING BEFORE RE-USE.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. Ventilation:U
SE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION.  Protective Gloves:RUBBER
Eye Protection:CHEMICAL SAFETY GOGGLES
Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, UNIFORM Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.  Supplemental Safety and Health
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HCC:C1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:220F,1

04C

Melt/Freeze Pt:M.P/F.P Text:32.0F,0.0C

Vapor Pres:UNKNOWN. Vapor Density:UNKNOWN.

Spec Gravity:1.34

pH:ACID

Evaporation Rate & Reference: 0.7 (N-BUTYL ACETATE=1)

Solubility in Water:UNLIMITED

Appearance and Odor:YELLOW/GREEN LIQUID - PUNGENT ODOR

Percent Volatiles by Volume:64

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

Stability Indicator/Materials to Avoid:YES

ALKALIES, METALS, OXIDIZING OR REDUCING MATERIALS, CYANIDES OR COMBUSTIBLE MATERIALS

Stability Con

dition to Avoid: EXCESSIVE HEAT AND COLD

Hazardous Decomposition Products:HYDROCHLORIC ACID, ZINC CHLORIDE FUMES, ZINC OXIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. REUSING OR RECYCLING IS RECOMMENDED.

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