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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 Num:

Info Phone Num 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:NONE 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 Rpt 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 EY

E 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 WAT

ER. 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 RELEAS E 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 IN
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:USE
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
========= Physical/Chemical Properties =========
HCC:C1 NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:220F,104C

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 Condit

ion 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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