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SIFCO METACHEMICAL DIV OF SIFCO INDUSTRIES,INC. -- SIFCO DALIC SOLUTION NO.4 ETCHING AND ACTIVATING,CODE 1024 -- 6850-01-197-7786

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

Product ID:SIFCO DALIC SOLUTION NO.4 ETCHING AND ACTIVATING, CODE 1024

MSDS Date:11/21/1997

FSC:6850

NIIN:01-197-7786

MSDS Number: BYFBZ === Responsible Party ===

Company Name: SIFCO METACHEMICAL DIV OF SIFCO INDUSTRIES, INC.

Address:570

8 SCHAAF ROAD City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

Info Phone Num:216-594-0099

Emergency Phone Num:216-881-8600 216-363-7345(PAGER)

Preparer's Name: WERNER A.EHRENSCHNEIDER

Chemtrec Ind/Phone:(800)424-9300

CAGE:11924

=== Contractor Identification ===

Company Name: SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC.

Address: 5708 SCHAAF ROAD

Box:City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

Phone:216-524-0099/ FAX: -6331 Contract Num:SP0450-99-M-C811

CAGE:11924

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

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

(CERCLA) CAS:7647-01-0

RTECS #:MW4025000

Minumum % Wt:5.

Maxumum % Wt:10.

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:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:90.

Maxumum % Wt:95.

Other REC Limits: NONE RECOMMENDED

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CORROSIVE TO EYES AND MAY CAUSE SEVERE EYE DAMAGE. SKIN CONTACT: CAUSES IRRITATION. MAY CAUSE SKIN BURNS. INHALATION: MAY CAUSE RESPIRATORY IRRITATION. INGESTION: MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH. CHRONIC EFFECTS: PROLONGED OR REPEATED EXPOSUR

EROSION OF TEETH, BRONCHIAL IRRITATION, GASTROINTESTINAL
DISTURBANCES. MAY CAUSE SEVERE AND DELAYED HEAL TH EFFECTS SUCH AS

INFLAMMATION OF THE LUNGS AND CHEMICAL BRONCHITIS.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:EYES: SEVERE EYE DAMAGE. SKIN: IRRITATION,

BURNS. INHALED-SNEEZING, NASAL DISCHARGE, COUGNING, HEADACHES,

DIZZINESS, NAUSEA, FATIGUE, DIFFICULTY IN BREATHING.

INGESTED-SEVERE & PERMANENT DAMAGE TO MOU T

H, THROAT, STOMACH.

E MAY CAUSE

Medical Cond Aggravated by Exposure:PREEXISTING SKIN & EYE CONDITIONS, RESPIRATORY SYSTEM DISORDERS.

First Aid:EYES:HOLD LIDS APART & FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILLE REMOVING CONTAMINATED CLOTHING & SHOES. THOROUGHLY DECONTAM INATE OR DISCAED CLOTHING & SHOES. INHALED:REMOVE TO FRESH AIR. LAY VICTIM DO

WN, FEET RAISED. LOOSEN

TIGHT CLOTHING, COVER WITH BLANKET. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BR EATHING DIFFICULT. INGESTED: DO NOT INDUCE VOMITING, UNLESS ADVISED BY EMS. GIVEMILK OF MAGNESIA OR FRESH EGGS IF CONSCIOUS.

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:ALL.

Fire Fighting Procedures:NIOSH/MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREA

THING APPARATUS. STRUCTURAL FIRE FIGHTERS'
PROCTECTIVE CLOTHING MAY NOT PROVIDE ADEQUATE PROTECTION.
Unusual Fire/Explosion Hazard:CONTACT WITH METALS MAY FORM FLAMMABLE
HYDROGEN GAS. CONTAINERS CAN BUILD UP PRESSURE AND BURST IF EXPOSED
TO HEAT (FIRE). WATE RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE
AREA FOR LATER DISPOSAL. NFP A-704M SYSTEM: HEALTH: 03,
FLAMMABLILITY: 00, REACTIVITY: 00.

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

Spill Release

Procedures:DO NOT TOUCH OR WALK THROUGH SPILL. ISOLATE & KEEP PEOPLE AWAY. ELIMINATE ALL SOURCES OF IGNITION. PROVIDE MAXIMUM VENTILATION. DO NO RELEASE INTO SOIL, SEWERS OR NATURAL BODIES OF WATER. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE). CAREFULLY MOP UP OR VACUUM SPILL & TRIPLE RINSE WITH INTO SUITABLE PLASTIC CONTAINER. RELEASE OF AN RQ AMOUNT REQUIRES NOTIFICATION OF AUTHORITIES.

Neutralizing Agent:SODIUM BICARBONATE,SODA ASH/SLAKED LIME.

===== Handling and Storage ==============

Handling and Storage Precautions:USE BUDDY SYSTEM WHEN WORKING WITH CHEMICALS. DO NOT GET IN EYES, ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR, MIST OR GAS.USE WITH ADEQUATE VENTILATION. WASH THOROUGHTLY AFTER HANDLING. TRIPLE RINSE CO NTAINER CLEAN BEFORE DISCARDING. PUT NOTHING ELSE IN THIS CONTAINER.

Other Precautions:KEEP CONTAINER TIGHTLY CLOSED IN UPRIGHT POSITION. STORE AT 60-90F AWAY FROM INCOMPATIBLE MATERIALS AND PHYS ICAL

HAZARDS. DO NOT REMOVE OR DEFACE CONTAINER LABELS.

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

Respiratory Protection:IF ENGINEERING CONTROLS ARE NOT FEASIBLE, THE PRESPIRATORY PROTECTION PROGRAM MUST COMPLY WITH OSHA'S 29 CFR 1910.134, 30 CFR 11 AND ANSI Z88.2 REQUIREMENTS.

Ventilation:LOCAL EXHAUST VENTILATION IS REQUIURED TO MEET THE PERMISSABLE EXPOSURE LIMITS (PEL) DURING USE OF PRODUCT. Protective Gloves:NITRILE,NEOPRENE,VINYL,LATEX GLOVES. Ey

- e Protection:FACE SHIELD & SAFETY GLASSES W/WIDE SHIELDS OR SPLASH-PROOF CHEMICAL GOGGLES.
- Other Protective Equipment:IMPERVIOUS BOOTS,APRON AND PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.
- Work Hygienic Practices: USE REASONABLE CARE IN HANDLING THIS PRODUCT. WASH HANDS AFTER USE AND BEFORE EATING.

Supplemental Safety and Health

- DO NOT WEAR CONTACT LENSES. EYE WASH STATION, SAFETY-SHOWER, WASHING FACILITIES NEAR WORK AREA. CORROSIVE TO SKIN
- , EYES, & RESPIRATORY
 - SYSTEM. ENVIRONMENTAL HAZARD 1996 NORTH AMERICAN EMERGENCY RESPON SE GUIDEBOOK ID#1789 GUIDE #157.

	Physical/Chemical Properties	S ==========
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HCC:C1

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt:9,000 LITERS; EHS: NONE. EPCRA HAZARD CATAGPRIES: ACUTE/IMMEDIATE HEALTH: YES; CHRONIC/DE LAYED HEALTH: YES; FIRE: NO; SUDDEN RELEASE OF PRESSURE: NO. REACTIVITY: NO.

Federal Regulatory Information:TSCA: ALL INGREDIENTS OF THIS PRODUCT ARE L

ISTED UN DER THE TOXIC SUBSTANCES CONTROL ACT (TSCA). ODS CERTIFICATION: THIS PRODUCT DOES NOT CONTAIN AND IS NOT MANUFACTURED WITH OZONE DEPLETING SUBSTANCE S (ODS). VOC CERTIFICATION: THIS PRODUCTDOES NOT CONTAIN ANY VOLATILE ORGANIC COMPOUNDS (VOC)PCB CERTIFICATION: THIS PRODUCT DOES NOT CONTAIN ANY POLYCHLORINATED BIPHENYLS..

State Regulatory Information: CALIFORNIA PROPOSITION 65: NOT APPLICABLE.

Discl

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