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SIFCO SELECTIVE PLATING DIVISION OF SIFCO INDUSTRIES, INC. -- SIFCO DALIC PLATING SOLUTION CADMIUM (ACID) -- 6850-01-349-8654

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

Product ID:SIFCO DALIC PLATING SOLUTION CADMIUM (ACID)

MSDS Date:03/13/2000

FSC:6850

NIIN:01-349-8654

MSDS Number: CJNWB === Responsible Party ===

Company Name: SIFCO SELECTIVE PLATING DIVISION OF SIFCO INDUSTRIES, INC.

Address:5708 SCHAAF

ROAD

City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

Info Phone Num:216-524-0099 /FAX: 216-524-6331 Emergency Phone Num:INTL: 703-527-3887(COLLECT)

Resp. Party Other MSDS Num.:SPS 5050 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:SP0450-00-M-D346

CAGE:11924

Company Name:SI

FCO 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:SP0450-00-M-SC50

CAGE:11924

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:SP0450-00-M-SE33

CAGE:11924

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:SP0450-01-M-ZD19 CAGE:11924 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-ND16 CAGE:11924 ======= Composition/Information on Ingredients ======== Ingred Name: SULFURIC ACID (SARA 302/313) (CERCLA) CAS:7664-93-9 RTECS #:WS5600000 Minumum % Wt:5. Maxumum % Wt:10. Other REC Limits: NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3/3 STEL; 9495 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS Ingred Name: CADMIUM SULFATE CAS:10124-36-4 RTECS #:EV2700000 Minumum % Wt:20. Maxumum % Wt:30. Ingred Name:WATER CAS:7732-18-5

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:60. Maxumum % Wt:75.

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED Routes of Entr

y: Inhalation:YES Skin:YES Ingestion:YES

Health Hazards Acute and Chronic:TARGET ORGANS: SKIN, EYES, NASAL CAVITY, LUNGS, KIDNEYS AND LIVER. CORROSIVE TO EYES AND MAY CAUSE SEVERE EYE DAMAGE. SKIN CONTACT: CORROSIVE TO SKIN, CAUSES BURNS AND POSSIBLE ALLERGIC REACTION. SUBS TANCE IS POSSIBLY TOXIC VIA SKIN ULCERATIONS. SUBSTANCE IS POSSIBLY TOXIC IF ABSORBED THROUGH THE SKIN. INHALATION: MAY CAUSE SNEEZING, NASAL DI SCHARGE.

COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGU E OR DIFFICULTY IN BREATHING. INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT, AND STOMACH.

Explanation of Carcinogenicity: CADMIUM SULFATE IS LISTED ON THE LIST FOR ALL 3 AGENCIES AS CARCINOGENIC TO HUMAN.

Effects of Overexposure:PROLONGED OR REPEATED EXPOSURE MAY CAUSE DAMAGE TO SKIN, EYES, RESPIRATORY SYSTEM AND TEETH. MAY CAUSE SEVERE AND DELAYED HEALTH EFFECTS SUCH AS INFLA

MMATION OF THE LUNGS, CHEMICAL BRONCHITIS, AND/OR CANCER.

Medical Cond Aggravated by Exposure:PRE-EXISTING SKIN & EYE CONDITIONS; RESPIRATORY SYSTEM DISORDERS.

First Aid:EYES: HOLD EYELIDS APART AND FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. THOROUGHLY DECONTAMINATE (OR DISCARD) CLOTHING

AND SHOES. INHALATION: REMOVE TO FRESH AIR. LAY VICTIM DOWN, LEGS RAISED. LOOSEN TIGHT CLOTHING, COVER WITH A BLANKET. IF NOT BREATHING, GIVE ART IFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING, UNLESS ADVISED BY EMS. GIVE VICTIM LARGE QUNATITIES OF WATER OR MILK WITH 1-2 FRESH EGGS. GIVE A GLASS O F 1/3 VINEGAR WITH 2/3 WATER.

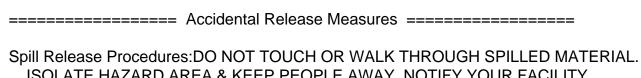
Flash Point:NONE

Lower Limits:NONE Upper Limits:NONE

Extinguishing Media:ALL. MATERIAL WILL NOT BURN.

Fire Fighting Procedures:NIOSH/MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. STRUCTURAL FIRE FIGHTERS' PROTECTIVE 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). WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AR



ISOLATE HAZARD AREA & KEEP PEOPLE AWAY. NOTIFY YOUR FACILITY
EMERGENCY COORDINATOR. ELIMINATE ALL SOURCES OF IGNITION. PROVIDE
MAXIMUM VENTILATION. DO NO T RELEASE INTO SOIL. SEWERS, OR NATURAL
BODIES OF WATER. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE).
CAREFULLY MOP UP OR VACCUM SPILL AND TRIPLE RINSE WITH
WATER INTO

PLASTIC CONTAINER.

EA FOR LATER DISPOSAL.

Neutralizing Agent: SODA ASH AND/OR CRUSHED LIMESTONE.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED IN UPRIGHT POSITION. STORE AT 60-90F AWAY FROM INCOMPATIBLE MATERIALS & PHYSICAL HAZARDS. DO NOT REMOVE OR DEFACE CONTAINER LABELS. USE "BUDDY SYSTEM" WHEN WORKING WITH C HEMICALS. DO NOT GET INTO EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR, MIST OR GAS.

Oth

er Precautions:USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. TRIPLE RINSE CONTAINERS BEFORE DISCARDING PUT NOTHING ELSE IN THIS CONTAINER. NOTE FROM SPILL: RELEASE OF A REPORTABLE QUANTITY(RQ) REQUIRES NOTIFICATION OF PROPER AUTHORITIES.

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

Respiratory Protection:IF ENGINEERING CONTROLS ARE NOT FEASIBLE, THE RESPIRATORY PROTECTION PROGRAM MUST COMPLY WITH OSHA'S 29 CFR 1910.134, 30 CFR 11 AN

D ANSI Z88.2 REQUIREMENTS.

Ventilation:LOCAL EXHAUST VENTILATION REQUIRED TO MEET THE PERMISSIBLE EXPOSURE LIMITS (PEL) DURING THE USE OF THIS PRODUCT.

Protective Gloves:NITRILE, NEOPRENE, VINYL, LATEX GLOVES.

Eye Protection: FACE SHIELD & SAFETY GLASSES W/SIDE SHIELDS OR SPLASH-PROOF CHEMICAL GOGGLES.

Other Protective Equipment:IMPERVIOUS BOOTS, APRON, PROTECTIVE CLOTHING AS REQUIRED BY JOB CONDITIONS. EYE WASH STATION & SAFETY SHOWER. WASHING FACILITIES NEAR WORK AREA.

Work Hygi

enic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
DO NOT WEAR CONTACT LENSES. SIFCO PART NUMBER: SPS-5050.

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

HCC:C1

NRC/State Lic Num:NONE

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt:4,455 LITERS, (RELEASE) REPORTABLE QUANTITY:

>28 LITERS. EXTREMELY HAZARDOUS S UBSTANCE: SULFURIC ACID.

Federal Regulatory Information:TS

CA: ALL INGREDIENTS OF THIS PRODUCT

ARE LISTED UNDER TSCA. ODS: THIS PRODUCT DOES NOT CONTAIN OZONE DEPLETING SUBSTANCE. THIS PRODUCT DOES NOT CONTAIN ANY POLYCHLORINATED BYPHENYLS. CERCLA AND EPCR A: THRESHOLD PLANNING QUANTITY: >4,455 LITERS, (RELEASE) REPORTABLE QUANTITY: >28 LITERS. EXTREMELY HAZARDOUS SUBSTANCE: SULFURIC ACID. OSHA CADMIUM STANDARD (29 CFR 1910.1027): WARNING SIGNS SHALL B E DISPLAYED IN ALL REGULATED AREA & APPROACHES WITH THE FOLLOWING INFORMA TION:

DANGER, CADMIUM, CANC ER HAZARD, CAN CAUSE LUNG & KIDNEY DISEASE, AUTHORIZED PERSONNEL ONLY, RESPIRATORS REQUIRED IN THIS AREA. State Regulatory Information:WARNING! THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR REPRODUCTIVE TOXICITY.

============ Other Information ==============================

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