

SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC. -- SPS 5070, SIFCO SELECTRON
PLATING SOLUTION CADMIUM LHE -- 6850-00-306-9596

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

Product ID:SPS 5070, SIFCO SELECTRON PLATING SOLUTION CADMIUM LHE

MSDS Date:03/13/2000

FSC:6850

NIIN:00-306-9596

Status Code:A

MSDS Number: CLCSY

=== Responsible Party ===

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

Address:5708 SCHAAF ROAD

City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

Info Phone Num:216-524-0099/ FAX: -6331

Emergency Phone Num:800-424-9300

Resp. Party Other MSDS Num.:SPS 5070

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:SP0450-01-M-ZB15

CAGE:11924

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

Ingred Name:CADMIUM FLUOBORATE

CAS:14486-19-2

RTECS #:EV0525000

Minumum % Wt:15.

Maxumum % Wt:25.

Other REC Limits:9 MG/M3 (IDLH,NIOSH)

OSHA PEL:0.005 MG/M3 (CD)

ACGIH TLV:0.002MG/M3(CD,RDUST)

Ingred Name:ETHYLENEDIAMINE

CAS:107-15-3

RTECS #:KH8575000

Minumum % Wt:15.

Maxumum % Wt:25.

OSHA PEL:25 MG/M3;10 PPM

ACGIH TLV:25 MG/M3;10 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:WATER

m % Wt:50.
Maxumum % Wt:70.

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:TARGET ORGANS: SKIN, EYES, NASAL CAVITY, LUNGS, KIDNEYS & LIVER. EYE: CAUSES EYE IRRITATION, BURNS POSSIBLE. SKIN CONTACT: CAUSES SKIN IRRITATION, MAY CAUSE BURNS & POSSIBLE ALLERGIC REACTIO

N. INHALAT ION: MAY CAUSE SNEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. MAY CAUSE SENSITIZATION OF RESPIRATORY TRACT. INGESTION: IRRITATING TO MOUTH, THRO AT, AND STOMACH. MAY CAUSE LIVER DAMAGE WITH JAUNDICE, KIDNEY & GASTROINTESTINAL DAMAGE. CHRONIC EFFECTS: PROLONGED OR REPEATED EXPOSURE MAY CAUSE DAMAGE TO SKIN, EYES, RESPIRATORY SYSTEM AND TEETH. M AY CAUSE SEVERE & DELAYED HEALTH EFFECTS

Explanation of Car

cinogenicity:NO DATA PROVIDED BY MANUFACTURER

Effects of Overexposure:EYE: EYE IRRITATION, BURNS. SKIN CONTACT: SKIN IRRITATION, BURNS AND POSSIBLE ALLERGIC REACTION. INHALATION: SNEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING, SENSITIZATION OF RESPIRATORY TRACT. INGESTION: IRRITATING TO MOUTH, THROAT & STOMACH. MAY CAUSE LIVER DAMAGE WITH JAUNDICE, KIDNEY & GASTROINTESTINAL DAMAGE. CHRONIC EFFECTS: DAMAGE TO SKI N, E

YES, RESPIRATORY SYSTEM & TEETH.

INFLAMMATION OF LUNGS & CHEMICAL BRONCHITIS. POSSIBLE PROSTATE CANCER.

Medical Cond Aggravated by Exposure:PREEXISTING SKIN AND EYE CONDITIONS; RESPIRATORY SYSTEM DISORDERS.

===== First Aid Measures =====

First Aid:EYES: HOLD LIDS APART & FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING & SHOES.

THOROUGHLY DECONTAMINATE OR DISCARD CLOTHING & SHOES. INHALATION: REMOVE TO FRESH AIR. LAY VICTIM DOWN, LEGS RAISED. LOOSEN TIGHT CLOTHING, COVER WITH A BLANKET. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING, UNLESS ADVISED BY EMS. GIVE VICTIM LOTS OF WATER/MILK WITH 1-2 EGGS.

===== Fire Fighting Measures =====

Flash Point:NONE
Autoignition Temp:Autoignition Temperature Text:N.A.
Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:ALL
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:CONTAINERS CAN BUILD UP PRESSURE AND BURST IF EXPOSED TO HEAT (FIRE). WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AREA FOR LATER DISPOSAL. NFPA 704M SYSTEM: HEALTH-3, FLAMMABILITY-0, REACTIVITY- 0.

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

Spill Release Procedures:DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. ISOLATE HAZARD AREA AND KEEP PEOPLE AWAY. NOTIFY YOUR FACILITY EMERGENCY COORDINATOR. ELIMINATE ALL SOURCES OF IGNITION. PROVIDE MAXIMUM VENTILATION. DO NOT RELEASE INTO SOIL, SEWERS, OR NATURAL BODIES OF WATER. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE). CAREFULLY MOP UP OR VACUUM SPILL AND TRIPLE RINSE WITH WATER INTO

SUITABLE PLASTIC CONTAINER
Neutralizing Agent:N.A

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

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

HT POSITION.

STORE 60-90 AWAY FROM INCOMPATIBLE MATERIALS & PHYSICAL HAZARDS. DO NOT REMOVE OR DEFACE CONTAINER LABELS.

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

Respiratory Protection: IF ENGINEERING CONTROLS ARE NOT FEASIBLE, THE RESPIRATORY PROTECTION PROGRAM MUST COMPLY WITH OSHA 29 CFR 1910.134.

Ventilation: LOCAL EXHAUST VENTILATION IS 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 AND 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 Hygienic Practices: DO NOT WEAR CONTACT LENSES. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health
NO DATA PROVIDED BY MANUFACTURER

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

HCC: B2

Boiling Pt: >100.C, 212.F

Melt/Freeze Pt: 20,000 LITERS. (RELEASE) REPORTABLE QUANTITY:

>40 LITERS. EXTREMELY HAZARDOUS SUBSTANCE: ETHYLENEDIAMINE. EPCRA HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH: YES; DELAYED (CHRONIC) HEALTH: YES, FIRE: NO, SUDDEN RELEASE OF PRESSURE: NO, REACTIVITY: NO.

Federal Regulatory Information: TSCA: ALL INGREDIENTS OF THIS PRODUCT ARE LISTED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA). ODS CERTIFICATION:

THIS PRODUCT DOES NOT CONTAIN AND IS NOT MANUFACTURED WITH OZONE DEPLETING SUBSTANCES (ODS). VOC CERTIFICATION: THIS PRODUCT DOES NOT CONTAIN ANY VOLATILE ORGANIC COMPOUNDS (VOC). PCB CERTIFICATION: THIS PRODUCT DOES NOT CONTAIN ANY POLYCHLORINATED BIPHENYLS (PCB).

State Regulatory Information: CALIFORNIA PROPOSITION 65: WARNING! THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE

VE
HARM.

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

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This information is formulated for use by elements of the Department
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