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SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC. -- 2043, SIFCO DALIC SOLUTION COBALT (HEAVY BUILD) -- 6850-01-266-6620 Product ID:2043, SIFCO DALIC SOLUTION COBALT (HEAVY BUILD) MSDS Date:03/06/2000 FSC:6850 NIIN:01-266-6620 Status Code:A MSDS Number: CLKRP === Responsible Party === Company Name: SIFCO SELECTIVE PLATING DIV OF SIFCO INDUSTRIES INC. Addre ss: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.:2043 Preparer's Name:NOT PROVIDED 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-ZG28 CAGE:11 924

Ingred Name:COBALT SULFATE CAS:10124-43-3 RTECS #:GG3100000 Minumum % Wt:10. Maxumum % Wt:20. Other REC Limits:NIOSH 0.05 MG/M3 OSHA PEL:0.1 MG/M3 ACGIH TLV:0.02 MG/M3

Ingred Name:SULFURIC ACID CAS:7664-93-9 RTECS #:WS5600000 Minumum % Wt:0. Maxumum % Wt:1. Other REC Limits:NIOSH 1 MG/M3 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 ACGIH STEL:3 MG/M3 EPA Rpt Qty:1000 LBS #:ZC0110000 Minumum % Wt:79. Maxumum % Wt:90. Other REC Limits:NOT PROVIDED Code:F Code:F

LD50 LC50 Mixture:NOT PROVIDED

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

Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO Health Hazards Acute and Chronic:EYE: MAY CAUSE EYE IRRITATION. SKIN

CONTACT: MAY CAUSE SKIN IRRITATION. MAY CAUSE SKIN SENSITIZATION

AND ALLERGIC REACTION, DERMITITIS. INHALATION: VAPOR O R MIST MAY BE

HARMFUL IF INHALED. MAY CAUSE S NEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. IRRITATING TO THE EYES, NOSE, THROAT, AND LUNGS. MAY CAUSE SENSITIZATION OF RESPIRATORY TRACT. ING ESTION: HARMFUL IF SWALLOWED. CAN IRRITATE MOUTH, THROAT AND STOMACH. MAY CAUSE LIVER DAMAGE AND JAUNDICE, KIDNEY AND GASTROINTESTINAL DAMAGE. CHRONIC: SKIN, EYES, RESPIRATORY SYSTEM, TEETH DAMAGE, RE SPIRATORY SENSITIZAT

ION AND DERMATITIS.

Explanation of Carcinogenicity: CONTAINS COBALT SULFATE.

Effects of Overexposure:EYE: MAY CAUSE EYE IRRITATION. SKIN CONTACT: MAY CAUSE SKIN IRRITATION. MAY CAUSE SKIN SENSITIZATION AND ALLERGIC REACTION, DERMITITIS. INHALATION: MAY CAUSE SNEEZING, NASAL DISCHARGE, COUGHING, HEADA CHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. IRRITATING TO THE EYES, NOSE, THROAT, AND LUNGS. MAY CAUSE SENSITIZATION OF RESPIRATORY TRACT. INGESTION: CAN IRRI

TATE MOUTH, THROAT AND ST OMACH. MAY CAUSE LIVER DAMAGE AND JAUNDICE, KIDNEY AND GASTROINTESTINAL DAMAGE.

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

First Aid:EYES: HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE REMOVIN G CONTAMINATED CLOTHING AND SHOES. THOROUGHLY D ECONTAMINATE (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 ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING, UNLESS ADVISED BY EMS. GIVE VICTIM LARGE QUANTITIES OF WATER OR MILK. GIVE MILK OF MAGNESIA OR FRESH EGGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONS CIOUS PERSON.

Flash Point:NONE Lower Limits:NONE Upper Limits:NONE Extinguishing Media:ALL Fire Fighting Procedures:NIOSH/MSHA APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING MAY NOT PROVIDE ADEQUATE PROTECTION. Unusual Fire/Explosion Hazard:CONTAINERS CAN BUILD UP PRESSURE AND BURST IF EXPOSED TO HEAT (FIRE). CONTACT WITH METALS MAY FORM FLAMMABLE HY DROGEN GAS. WATER RUNOFF CAN CAUSE ENVIRONMENTAL

DAMAGE. DIKE AREA FOR LATER DISPOSAL.

Spill Release Procedures:DO NOT TOUCH/WALK THROUGH SPILLED MATERIAL. ISOLATE HAZARD AREA AND KEEP PEOPLE AWAY. ELIMINATE SOURCES OF IGNITION. PROVIDE MAXIMUM VENTILATION. DO NOT RELEASE INTO SOIL, SEWERS/NATURAL BODIES OF WAT ER. WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT. CAREFULLY MOP UP OR VACUUM SPILL AND TRIPLE RINSE WITH

WATER INTO SUITABLE CONTAINER. REPORT RELEASE OF REPORTABLE QUANTITY (RQ) TO PROPER AUTHORITIES. Neutralizing Agent:NOT PROVIDED

 Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED IN UPRIGHT POSITION. STORE AT 60-90F AWAY FROM INCOMPATIBLE MATERIALS AND PHYSICAL HAZARDS. DO NOT REMOVE OR DEFACE CONTAINER LABELS.
Other 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 RINS E CONTAINER CLEAN BEFORE DISCARDING. PUT NOTHING ELSE IN THIS CONTAINER.

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.

Supplemental Safety and Health

ABBREVIA

TION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED. GI = GASTROINTESTINAL.

HCC:C1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=100.C, 212.F Melt/Freeze Pt: