

SIFCO METACHEMICAL DIV OF SIFCO INDUSTRIES,INC. -- DALIC SOLUTION, COPPER, CODE 2050
-- 6850-01-197-1650

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

Product ID:DALIC SOLUTION, COPPER, CODE 2050

MSDS Date:03/06/2000

FSC:6850

NIIN:01-197-1650

MSDS Number: BXV DX

=== Responsible Party ===

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

Address:5708 SCHAAF ROAD

City:CLEVELAND

State:OH

ZIP:44131-13

94

Country:US

Info Phone Num:216-881-8600

Emergency Phone Num:216-524-0099

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:SP0450-00-M-SD13

CAGE:11924

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

Address:5708 SCHAAF ROAD

Box:C

City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

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

Contract Num:SP0450-99-M-N-K31

CAGE:11924

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

Ingred Name:COPRER SULFATE (SARA 313) (CERCLA)

CAS:7758-98-7

RTECS #:GL8800000

Minumum % Wt:10.

Maxumum % Wt:15.

Other REC Limits:NOT PROVIDED

OSHA PEL:1 MG (CU)/M3

ACGIH TLV:1 MG(CU)/M3

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)

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Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:75.

Maxumum % Wt:85.

Other REC Limits:NOT PROVIDED

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===== Hazards Identification =====
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LD50 LC50 Mixture:NOT PROVIDED

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

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

Health Hazards Acute and Chroni

c:TARGET ORGAN: SKIN, EYES, NASAL

CAVITY, LUNGS, KIDNEYS, AND LIVER. EYE: CAUSES EYE IRRITATION, BURNS POSSIBLE. SKIN CONTACT: CAUSES SKIN IRRITATION; MAY CAUSE BURNS AND POSSIBLE ALLERGIC REACTION. INH ALATION: IRRITATING TO EYES, NOSE, THROAT, AND LUNGS. MAY CAUSE SNEEZING, NASAL DISCHARGE, COUGHING, HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. INGESTION: CAN IRRITATE MOUTH, TH ROAT, STOMACH; BURNS TO MUCOUS MEMBRANES, LIVER DAMAGE WITH JAUNDICE

, KIDNEY AND

GASTROINTESTINAL DAMAGE. CHRONIC EFFECT: MAY CAUSE DAMAGE TO SKIN, EYES, RESPIRATORY SYSTEM AND TEETH. MAY CAUSE INFLAM MATION OF LUNGS AND CHEMICAL BRONCHITIS.

Explanation of Carcinogenicity:ACGIH: SUSPECTED.

Effects of Overexposure:EYE: CAUSES EYE IRRITATION, BURNS POSSIBLE.

SKIN CONTACT: CAUSES SKIN IRRITATION; MAY CAUSE BURNS AND POSSIBLE ALLERGIC REACTION. INHALATION: IRRITATING TO EYES, NOSE, THROAT, AND LUNGS. MAY CAUSE SNE EZING, NASAL DISCHARGE, COUG

HING,

HEADACHES, DIZZINESS, NAUSEA, FATIGUE OR DIFFICULTY IN BREATHING. INGESTION: CAN IRRITATE MOUTH, THROAT, STOMACH; BURNS TO MUCOUS MEMBRANES, LIVER DAMAGE WITH JAUNDIC E, KIDNEY AND GASTROINTESTINAL DAMAGE.

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

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===== First Aid Measures =====
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First Aid:EYES: HOLD EYELIDS APART, FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTE

S. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. THOROUGHLY DECONTAMINATE 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 UNCONSCIOUS PERSON.

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

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 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. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. DIKE AREA FOR LATER DISPOSAL.

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

Spill Release Procedures:DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. ISOLATE HAZARD AREA. ELIMINATE IGNITION SOURCES. PROVIDE MAXIMUM VENTILATION. DO NOT RELEASE INTO SOIL, SEWERS OR NATURAL BODIES OF WATER. WEAR PROPER PROTECTIVE EQUIPMENT. CAREFULLY MOP UP OR VACUUM SPILL AND TRIPLE RINSE WITH WATER INTO SUITABLE PLASTIC CONTAINER. RELEASE OF A REPORTABLE QUANTITY (RQ) REQUIRES NOTIFICATION OF PROPER AUTHORITIES.
Neutralizing Agent:SODIUM BICARBONATE, SODA ASH/SLAKED LIME.

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

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 RINSE CONTAINER CLEAN BEFORE DISCARDING. PUT NOTHING ELSE IN THIS CONTAINER.

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===== 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 OR SPLASH-PROOF GOGGLES. NO CONTACT LENSES.

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

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health NONE

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt:29 LITERS. ERG GUIDE # 154.

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===== Regulatory Information =====

SARA Title III Information:1. THIS PRODUCT CONTAINS A TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF

TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) OF 1986 AND 40 CFR PART 372, IF SPECIFIED ANNUAL THRESHOLDS ARE MET OR EXCEEDED. COPPER COMPOUNDS (AS CU) CAS # 7440-50-8 (7%) AND SULFURIC ACID, 7664-93-9 (10%). 2. CERCLA AND EPCRA: THRESHOLD PLANNING QUANTITY: >5,000 LITERS. (RELEASE) REPORTABLE QUANTITY: >29 LITERS. EXTREMELY HAZARDOUS SUBSTANCE: SULFURIC ACID. 3. EPCRA HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH: YES. DELAYED (C

CHRONIC) HEALTH: YES.

Federal Regulatory Information: ALL INGREDIENTS OF THIS PRODUCT ARE LISTED UNDER THE TOXIC SUBSTANCE 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: THIS PRODUCT DOES NOT CONTAIN ANY POLYCHLORINATED BIPHENYLS (PCB).

State Regulatory Information: CALIFORNIA PROP. 65: NOT APPLICABLE.

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

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