

SIFCO SELECTIVE PLATING, DIV OF SIFCO INDUSTRIES -- SPS 5280 COPPER ALKALINE HEAVY BUILD PLATING SOLUTION -- 6850-01-064-1689

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

Product ID:SPS 5280 COPPER ALKALINE HEAVY BUILD PLATING SOLUTION

MSDS Date:11/12/1995

FSC:6850

NIIN:01-064-1689

MSDS Number: CBQPV

=== Responsible Party ===

Company Name:SIFCO SELECTIVE PLATING, DIV OF SIFCO INDUSTRIES

Address:5708 SCHAFF

ROAD

City:CLEVELAND

State:OH

ZIP:44131-1394

Country:US

Info Phone Num:216-524-0099

Emergency Phone Num:216-881-8600

Preparer's Name:WERNER EHRENSCHNEIDER

CAGE:DO645

=== 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

CAGE:11924

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

Address:5708 SCHAAF ROAD

City:CLEVELAND

Stat

e:OH

ZIP:44131-1394

Country:US

Phone:216-524-0099

CAGE:DO645

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

Ingred Name:COPPER (SARA 313) (CERCLA)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 3-7%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9596

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:METHANESULFONIC ACID

CAS:75-75-2

RTECS #:PB1140000

Fraction by Wt: 17-22%

Other REC Limits:NONE RECOMMENDED

LISHED.
ACGIH TLV:NOT ESTABLISHED.

Ingred Name:ETHYLENEDIAMINE (SARA 302) (CERCLA)
CAS:107-15-3
RTECS #:KH8575000
Fraction by Wt: 10-15%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 PPM
ACGIH TLV:S, 10 PPM; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 56-70%
Other REC Limits:NONE RECOMMENDED

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

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

Reports

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

Health Hazards Acute and Chronic:INHALATION OF VAPOR/MIST MAY BE
HARMFUL; CAUSES IRRITATION OF EYES, NOSE, THROAT. CONTACT MAY CAUSE
SKIN & EYE IRRITATION. HARMFUL IF SWALLOWED; MAY CAUSE IRRITATION
OF MOUTH/THROAT/STOMACH; MAY CAUSE DAMAGE TO LIVER/KIDNEYS/GI
TRACT. CHRONIC: PROLONGED/REPEATED EXPOSURE MAY CAUSE DAMAGE TO
LIVER/SKIN/EYES/LUNGS.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER

IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:EYES-IRRITATION, BURNS. SKIN-IRRITATION, BURNS,
ALLERGIC REACTION. INHALED-SNEEZING, NASAL DISCHARGE, COUGHING,
HEADACHES, DIZZINESS, NAUSEA, FATIGUE, DIFFICULTY BREATHING.
INGESTED-IRRITATION OF MOUT H/THROAT/STOMACH, JAUNDICE; GI TRACT
DAMAGE.

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

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

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First Aid:EYES-FLUSH WITH WATER FOR 15 MINUTES, HOLD LIDS APART.
SKIN-REMOVE CONTAMINATED CLOTHES. FLUSH WITH LOTS OF WATER.
INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL
RESPIRATION AS NEEDED. TREAT FOR SHOCK. INGESTED-DO NOT INDUCE
VOMITING UNLESS DIRECTED BY EMS. GIVE LOTS OF WATER OR MILK. GIVE
MILK OF MAGNESIA OR FRESH EGGS. NEVER GIVE ANYTHING BY MOUTH IF
UNCONSCIOUS.

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

Flash
Point:NONE
Autoignition Temp:Autoignition Temp Text:NONE
Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS. FIRE
FIGHTER'S BUNKER GEAR MAY NOT PROVIDE ADEQUATE PROTECTION.
Unusual Fire/Explosion Hazard:CONTAINERS CAN BUILD-UP PRESSURE AND
BURST IF EXPOSED TO FIRE/HEAT. WATER RUNOFF CAN CAUSE ENVIRONMENTAL
DAMAGE. DIKE AREA FOR LATER DISPOSAL.

===== Acciden
tal Release Measures =====

Spill Release Procedures:ISOLATE & DENY ENTRY. NOTIFY EMERGENCY
COORDINATOR. VENTILATE AREA. ELIMINATE ALL SOURCES OF IGNITION. KEEP
OUT OF SEWERS, DRAINS, WATERWAYS, SOIL. WEAR PROPER PERSONAL
PROTECTIVE EQUIPMENT. MOP UP OR VACUUM INTO PROPER PLASTIC
CONTAINER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL (60-90F)
, DRY PLACE
AWAY FROM INCOMPATIBLE MATERIALS AND PHYSICAL HAZARDS. DO NOT
REMOVE OR DEFACE CONTAINER LABELS.
Other Precautions:DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT
BREATHE VAPOR, MIST OR GAS. USE WITH ADEQUATE VENTILATION. WASH
THOROUGHLY AFTER HANDLING. TRIPLE RINSE CONTAINER BEFORE
DISCARDING. DO NOT REUSE THIS CONTAINER FOR ANYTHING ELSE.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAI

L OR NON-ROUTINE USE

OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:LOCAL EXHAUST VENTILATION IS REQUIRED TO MEET PEL DURING USE OF THIS PRODUCT.

Protective Gloves:NEOPRENE, NITRILE, VINYL, LATEX.

Eye Protection:SAFETY CHEMICAL GOGGLES & FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

IMPERVIOUS BOOTS, APRON, AND PROTECTIVE CLOTHING AS REQUIRED BY JOB CONDITIONS.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

MSDS PRESENTED BY CAGE 11924 FOR CONTRACT SP0450-96-M-L762.

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

HCC:C2

Boiling Pt:=100.C, 212.F

Spec Gravity:1.185

pH:0-1

Solubility in Water:COMPLETE

Appearance and Odor:BLUE LIQUID; ODORLESS.

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

METALS, STRONG ALKALIS, STRONG OXIDIZING AGENTS, ORGANICS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:COPPER, OXIDES OF SULFUR.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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