

SIFCO SELECTIVE PLATING, DIV OF SIFCO INDUSTRIES -- 30205606 COPPER PLATING SOLUTION
-- 6850-01-266-6621

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

Product ID:30205606 COPPER PLATING SOLUTION

MSDS Date:02/16/1989

FSC:6850

NIIN:01-266-6621

MSDS Number: BGWGC

=== 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:216-881-8600

Emergency Phone Num:216-881-8600

Preparer's Name:WERNER A. EHRENSCHNEIDER

CAGE:DO645

=== Contractor Identification ===

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

Address:5708 SCHAFF 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

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City:CLEVELAND

State:OH

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Country:US

Phone:

216-524-0099

CAGE:DO645

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

Ingred Name:COPPER ETHYLENEDIAMINE FORMATE

Ingred Name:MFR STATES,"TRADE SECRET INFO WILL BE DISCLOSED ONLY UPON
FULL COMPLIANCE WITH OSHA STD, 29 CFR 1910.1200."

RTECS #:9999999ZZ

===== 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:PLATI

NG SOLUTION IS CORROSIVE TO BODY

TISSUES RESULTING IN SEVERE BURNS, ESPECIALLY TO MUCOUS MEMBRANES. MAY SENSITIZE AN ACUTE ALLERGIC DERMATITIS AND OR DEEP PENETRATING ULCERS. CHRONIC EXPOSURE T O THE FUMES MAY CAUSE ASTHMA.BRONCHIAL IRRITATION & PNEUMONIA, ASTHMA. MAY CAUSE LIVER AND/OR KIDNEY DAMAGE.

Explanation of Carcinogenicity:THE PRODUCT CONTAINS NO INGREDIENT THAT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYE: SEVERE IRRITATION,BURNS.

SKIN:IRRITATION,POSSIBLE DEEP PENETRATING BURNS,DERMATITIS. INHALED:RESPIRATORY IRRITATION,COUGHING CHOKING,LIGHT HEADEDNESS,FROTHY SPUTUM,CYANOSIS AND HEMOPTYSIS. IN GESTION:G/I IRRITATION, ESOPHAGEAL OR GASTRIC PENETRATION, ASPHYXIA, LIVER AND/OR KIDNEY DAMAGE.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, KIDNEYS, LIVER, ALLERGIES, OR SENSITIZATION TO COPPER OR ITS COMPOUNDS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDRER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. INGESTED:D O NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITIO

N PRODUCTS.

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

Spill Release Procedures:WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBENT. PUT IN DISPOSAL CONTAINER. REMOVE RESIDUE WITH WATER. DO NOT FLUSH TO DRAIN!

Neutralizing Agent:NONE GIVEN BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

STORE BETWEEN 50-90F.

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. FLUSH CONTAINER CLEAN BEFORE DISCARDING. DO NOT REUSE THIS CONTAINER FOR ANYTHING ELSE.

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

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ACID

DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:LOCAL EXHAUST VENTILATION IS REQUIRED.

Protective Gloves:NEOPRENE, NITRILE, OR VINYL RUBBER

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:USE GOOD CHEMICAL HYGIENE PRACTICE. PREVENT ALL

CONTACT IF POSSIBLE.

Supplemental Safety and Health

DO NOT WEAR CONTACT LENSES!! FLUSH OUT CONTAINER BEFORE DISPOSAL. DO NOT REUSE CONTAINER FOR OTHER MATERIALS.

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

HCC:V7

Boiling Pt:>100.C, 212.F

Melt/Freeze Pt: