

SIFCO METACHEMICAL DIV OF SIFCO INDUSTRIES,INC. -- 1021, NO. 1 ETCHING SOLUTION --  
6850-01-011-2349

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

Product ID:1021, NO. 1 ETCHING SOLUTION

MSDS Date:04/16/1990

FSC:6850

NIIN:01-011-2349

MSDS Number: BPYKH

=== Responsible Party ===

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

Address:5708 SCHAAF 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:11924

=== Contractor Identification ===

Company Name:SELECTRONS LTD

Address:137 MATTATUCK HEIGHTS ROAD

Box:115

City:WATERBURY

State:CT

ZIP:06725-0115

Country:US

Phone:203-755-9900

CAGE:13929

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

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

Ingred Name:TRADE SECRET  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED

Ingred Name:SULFURIC ACID (SARA III)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: APROX 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

==== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinoge

nicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYES:HIGHLY PAINFUL

IRRITATION,BURNS, LESIONS.SKIN:PAINFUL BURNING,ULCERATION &  
SHOCK.INHALATION:IRRITATION, BURNING SENSATION,COUGHING,DIFFICULTY  
IN BREATHING,BRONCHITIS & PULMONARY EDEMA.INGES TION:BURNING  
SENSATION IN MOUTH,THROAT & STOMACH,SALIVATION, NAUSEA,VOMITING OF  
BLOOD,SHOCK.CHRONIC-ASTHMA,DERMATITIS.

Explanation of Carcinogenicity:THE PRODUCT CONTAINS NO INGREDIENT THAT  
IS LISTED BY IARC,

NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:DANGER! CAUSES SEVERE BURNS. MAY BE FATAL IF  
SWALLOWED. MAY CAUSE PERMANENT EYE INJURY. MAY CAUSE ALLERGIC SKIN  
REACTION.

Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY DISORDERS;  
PREEXISTING SKIN AND EYE CONDITIONS.

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

First Aid:SEEK MEDICAL CARE IN ALL CASES.EYES & SKIN: FLUSH WITH WATER  
FOR AT LEAST 15 MINUTES.INHALATION:REMOVE TO FRESH AIR.LAY

VICTIM

DOWN,LEGS RAISED.LOOSEN TIGHT CLOTHING.COVER HIM WITH BLANKET.GIVE CPR/OX YGEN IF NEEDED.INGESTION:DO NOT INDUCE VOMITING.IF CONSCIOUS,DRINK LARGE AMOUNT OF WATER/MILK.

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Fire Fighting Measures  
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Flash Point:NONE

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

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COO

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FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:EXCESSIVE HEAT MAY CAUSE CONTAINERS TO BURST AND GENERATE CORROSIVE VAPORS.

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Accidental Release Measures  
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Spill Release Procedures:PROVIDE MAXIMUM VENTILATION. ELIMINATE ALL SOURCES OF IGNITION. USE PROTECTIVE CLOTHING & RESPIRATORS. DO NOT RELEASE INTO SOIL, SEWER, SOURCES OF DRINKING WATER. CAREFULLY MOP UP/VACUUM SPILL AND TRI PLE RINSE WATER INTO SUITABLE PLAS

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CONTAINER.

Neutralizing Agent:DILUTE ACID, PREFERABLY ACETIC ACID, SODIUM BICARBONATE

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Handling and Storage  
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Handling and Storage Precautions:STORAGE-STORE IN A TIGHTLY CLOSED CONTAINER AT 50-90F AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:USE "BUDDY SYSTEM" WHEN WORKING WITH CHEMICALS. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPORS, MIST OR GAS. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER

HANDLING. KEEP CONTAI NER IN UPRIGHT POSITION.

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE ONLY WITH ADEQUATE VENTILATION. IF NEEDED, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR ORGANIC VAPOR CARTRIDGES.

Ventilation:LOCAL EXHAUST REQUIRED TO MEET PERMISSIBLE EXPOSURE LIMITS.

Protective Gloves:NITRILE, NEOPRENE, VINYL, LATEX

Eye Protection:CHEMICAL SPLASH GOGGLES & FACE SHIELD

Other Protective Equipment:IMPERVIOUS APRON,

BOOTS, PROTECTIVE

CLOTHING, EYE-WASH FACILITIES, SAFETY SHOWER.

Work Hygienic Practices:DO NOT EAT, DRINK,OR SMOKE WHILE WORKING WITH THIS MATERIAL. DO NOT WEAR CONTACT LENSES.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:>212F,>100C

Melt/Freeze Pt:M.P/F.P Text: