

SIFCO SELECTIVE PLATING, DIV OF SIFCO INDUSTRIES -- 1021 OR P/N 30102106 NO.1 ETCHING & ACTIVATING -- 6850-01-267-4645

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

Product ID:1021 OR P/N 30102106 NO.1 ETCHING & ACTIVATING

MSDS Date:10/10/1994

FSC:6850

NIIN:01-267-4645

MSDS Number: BWRFK

=== Responsible Party ===

Company Name:SIFCO SELECTIVE PLATING, DIV OF SIFCO INDUSTRIES

Address:5708 SCHAFF ROAD

City:C

LEVELAND

State:OH

ZIP:44131-1394

Country:US

Info Phone Num:216-881-8600

Emergency Phone Num:216-881-8600 PAGER 216-363-3457

Preparer's Name:WERNER A 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:CLEVE

LAND

State:OH

ZIP:44131-1394

Country:US

Phone:216-524-0099

CAGE:DO645

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

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 1-5%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:AMMONIUM SULFATE (SOLUTION) (SARA III)

CAS:7783-20-2

RTECS #:BS4500000

Fraction by Wt: 7-13%

Other REC Limits:NONE RECOMMENDED

me:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 60-100%
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:ACUTE: INHALATION OF VAPORS/MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION, LUNG DAMAGE. CONTACT WITH SKIN & EYES MAY CAUSE SEVERE IRRITATION. INGESTION MAY CAUSE BURNS TO MUCOUS MEMBRANES; SEVERE GI TRACT IRRITATION. CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE BRONCHIAL IRRITATION, TOOTH EROSION.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:INGESTED-PAIN IN SWALLOWING,BURNING SENSATION IN MOUTH/THROAT,INTENSE THIRST,NAUSEA.INHALED-IRRITATION OF MOUTH/NOSE/THROAT,NASAL DISCHARGE,SNEEZING,COUGHING,THORACIC DEPRESSION & DISTRESS,DIFFICULT BREATHING,RAPID BREATHING,HEADACHE.EYES-STINGING/BURNING SENSATION,TEARING,IRRITATION.SKIN-IRRITATION,BURNING SENSATION.
Medical Cond Aggravated by Exposure:RESPIRATORY DISORDERS, SKIN CONDITIONS, EYE CONDITIONS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE MOUTH-TO-MOUTH RESUSCITATION IF NOT BREATHING. GET MEDICAL ATTENTION IMMEDIATELY.
EYE: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING LID OPEN. GET MEDICAL ATTENTION IMMEDIATELY. SKIN: WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LOTS OF MILK OR WATER. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point:NONE
Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG.
Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTION

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EQUIPMENT WHEN FIGHTING FIRE. RUNOFF FROM FIRE CONTROL WATER MAY CAUSE POLLUTION. DIKE SPILL FOR LATER DISPOSAL.

Unusual Fire/Explosion Hazard:EXCESSIVE HEAT MAY CAUSE CONTAINERS TO BURST. CONTACT WITH COMMON METALS MAY GENERATE EXPLOSIVE HYDROGEN GAS.

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

Spill Release Procedures:NOTIFY FACILITY EMERGENCY COORDINATOR. DO NOT RELEASE INTO SOIL, SEWER, STREAM, POND, OR SOURCE OF DRINKING WATER. PROVIDE MAXIMUM VENTILATION. WEAR PROPER PROTECTIVE EQUIPMENT. CAREFULLY MOP UP OR VA CUUM SPILL & PLACE IN A SUITABLE PLASTIC CONTAINER

Neutralizing Agent:SODIUM BICARBONATE OR 50/50 SODA ASH-SLAKED LIME.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED AND UPRIGHT. STORE AT 50-90F,AWAY FROM INCOMPATIBLES. PROTECT CONTAINERS FROM DAMAGE OR SPILLAGE.

Other Precautions:FLUSH CONTAINERS AFTER USE. DO NOT REUSE CONTAINERS.

DO NOT REMOVE OR DEFACE CONTAINER LABELS. WASTE DISPOSAL CONT'D: SARA 313-SULFURIC ACID,CAS# 7664-93-9,5%, AMMONIUM SULFATE,CAS# 7664-20-2,13%; SA RA 311/312-IMMEDIATE & DELAYED.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH

29 CFR 1910.13 4 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NITRILE, NEOPRENE, VINYL, LATEX.

Eye Protection:SPLASH GOGGLES, FACE SHIELD.

Other Protective Equipment:EYE WASH, SAFETY SHOWER. IMPERVIOUS BOOTS, APRON, OTHER CLOTHING AS DICTATED BY JOB.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE R

EUSE.
Supplemental Safety and Health

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

HCC:C1
Boiling Pt:B.P. Text:>212F,>100C
Melt/Freeze Pt:M.P/F.P Text: