

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:CLE

VELAND

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 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

Address:5708 SCHAFF ROAD

City:CLEVELA

ND

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

: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 PROTECT

IVE

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 VACUUM 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 1910.134 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 REUSE

SE.
Supplemental Safety and Health

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

HCC:C1

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

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