

FISHER SCIENTIFIC CO CHEMICAL DIV. -- SC881 CLEANING SOLUTION (CHROMIC ACID-SULFU -- 6810-01-245-2127

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Product Identification
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Product ID:SC881 CLEANING SOLUTION (CHROMIC ACID-SULFU

MSDS Date:11/06/1991

FSC:6810

NIIN:01-245-2127

MSDS Number: BNWVZ

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100 OR 201-796-7523

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:2000 PARK LN

Box:City:PITTSBURGH

State:PA

ZIP:15275

Country:US

Phone:412-490-8586

CAGE:22527

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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Composition/Information on Ingredients
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Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: >97%
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:CHROMIC ACID
CAS:1333-82-0
RTECS #:GB6650000
Fraction by Wt: 0.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 MICRO GRAMS/M3
ACGIH TLV:50 MICRO GRAMS/M3

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: <2%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2140 MG/KG (H2SO4)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CAUSES SEVERE BURNS ON CONTACT WITH SKIN AND EYES. VAPORS CAUSE SEVERE IRRITATION OF RESPIRATORY TRACT IF INHALED. WILL CAUSE SEVERE IRRITATION OF GI TRACT AND BURNS TO MOUTH, THROAT, AND STOMACH IF S WALLOWED. PROLONGED OR REPEATED INHALTION OR CONTACT MAY CAUSE CANCER OR LESIONS IN MUCOUS MEMBRANESOR SKIN.

Explanation of Carcinogenicity:CHROMIUM IS LISTED AS A KNOWN CARCINOGEN BY IARC AND NTP.

Effects of Overexposure:INHALED: SEVERE CHEST PAIN, SHORTNESS OF BREATH, COUGHING, SNEEZING, WHEEZING, BLOODY NOSE. EYES: PAIN, REDNESS, BURNS, TEARING, BLURRED VISION. SKIN: REDNESS, BURNS, PAIN, ITCHING. INGESTED: SORE THR OAT, BROWN STAINS AROUND MOUTH, SEVERE PAIN IN STOMACH, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK WHEN USING THIS MATERIAL.

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First Aid Measures
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First Aid:INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL CARE. EYES: FLUSH WITH FLOODING AMOUNTS OF WATER WHILE HOLING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH WITH LOTS OF WATER FORSEVERAL MINUTES. GET MEDICAL ATTENTION FOR BURNS. INGESTED: GET IMMEDIATE MEDICAL ATTENTION. DOCTORS: REMOVE BY GASTRIC LAVAGE OR EMESIS IF PERSON IS CONSCIOUS.

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Fire Fighting Measures
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Flash Point:NONE

Extinguishing Media:DRY CHEMICAL OR CARBON DIOXIDE

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. DO NOT GET SOILD STREAM OF WATER ON MATERIAL. MOVE CONTAINER IF CAN BE DONE AT NO RISK.

Unusual Fire/Explosion Hazard:MAY PRODUCE TOXIC FUMES OR VAPOR ON EXPOSURE TO HIGH TEMPERATURES OR OPEN FLAME.

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Accidental Release Measures
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Spill Release Procedures:KEEP COMBUSTIBLES AWAY. DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF CAN BE DONE AT NO RISK. CONTAIN SPILL. ISOLATE AREA AND DENY ENTRY. VENTILATE AREA. NEUTRALIZE AND PLACE IN AN ACID-PROOF CONTAINER FOR LATER DISPOSAL.

Neutralizing Agent:20% SODIUM BICARBONATE SOLUTION, SLAKED LIME, CRUSHED LIMESTONE.

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Handling and Storage
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Handling and Storage Precautions:STORE AWAY FROM INCOMPATIBLES. USE ONLY WHERE PROPER VENTILATION IS PROVIDED.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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Exposure Controls/Personal Protection
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Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL, USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID MISTS OR AIR SUPPLIED RESPIRATOR. IF RESPIRATORY PROTECTION IS USED, APROGRAM IN ACCORDANCE WITH 29 CF R 1910.134 MUST BE IMPLEMENTED.

Ventilation:USE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MAINTAIN EXPOSURES BELOW TLV.

Protective Gloves:PVC OR NEOPRENE

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:APRON, LAB COAT OR SIMILAR CLOTHING TO PREVENT REPEATED OR PROLONGED CONTACT. EYE WASH STATION & SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

AVOID CONTACT WITH MATERIAL. AVOID BREATHING VAPORS.

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

HCC:C1

Boiling Pt:B.P. Text:554F,290C

Melt/Freeze Pt:M.P/F.P Text:23.0F,-5.0C

Vapor Pres:.001 MM HG

Spec Gravity:1.9

Solubility in Water:COMPLETE

Appearance and Odor:DARK BROWN VISCOUS LIQUID

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

Stability Indicator/Materials to Avoid:YES

FINELY DIVIDED COMBUSTIBLES, ORGANICS, WATER, STRONG ALKALIS, METALS, NITRIC ACID MIXTURES, PHOSPHOROUS COMPOUNDS.

Stability Condition to Avoid:CONTACT WITH WATER, ORGANIC MATERIALS, AND FINELY DIVIDED COMBUSTIBLES.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC AND HAZARDOUS FUMES OF CHROMIUM AND SULFUR.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. CONTAINS CHROMIUM- REGULATORY LEVEL IS 5.0 MG/L. IF AT OR ABOVE THIS LEVEL, MUST BE DISPOSED OF IAW 40 CFR 262, EPA HAZARDOUS WASTE NUMBER D007.

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