

HACH CO -- SILICA 1 REAGENT -- 6810-01-461-3318

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

Product ID:SILICA 1 REAGENT  
MSDS Date:04/29/1996  
FSC:6810  
NIIN:01-461-3318  
Status Code:A  
MSDS Number: CJKXN  
=== Responsible Party ===  
Company Name:HACH CO  
Box:389  
City:LOVELAND  
State:CO  
ZIP:80539-0389  
Country:US  
Info Phone Num:970-669-3050  
Emergency Phone Num:303-623-5716  
CAGE:91224  
=== Contractor Identification ===

Company Name:HACH CO  
Address:5600 LINDBERGH DR  
Box:389  
City:LOVELAND  
State:CO  
ZIP:80539  
Country:US  
Phone:970-669-3050/ 303-623-5716  
Contract Num:SP0450-99-M-NA98  
CAGE:91224

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

Ingred Name:MOLYBDIC ACID  
CAS:7782-91-4  
Minumum % Wt:5.  
Maxumum % Wt:10.  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:SODIUM BISULFATE  
CAS:7681-38-1  
RTECS #:VZ1860000  
Minumum % Wt:5.  
Maxumum % Wt:10.

Ingred Name:SULFURIC ACID  
CAS:7664-93-9  
RTECS #:W

S5600000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:3 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:DEMINERALIZED WATER  
CAS:7732-18-5  
Code:F  
RTECS #:ZC0110000

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYES: CAUSES EYE BURNS. SKIN: CAUSES  
BURNS. SKIN ABSORPTION: NONE REPORTED. I  
NGESTION: CAUSES: BURNS.  
MAY CAUSE: NAUEA, VOMITING, DIARRHEA, RAPID PULSE & RESPIRATIONS,  
LOSS OF APPETITE, CIRCULATORY D ISTURBANCES, ANEMIA, LIVER DAMAGE.  
INGESTION OF MOLYBDENUM MAY CAUSE LOSS OF COORDINATION, ENZYME  
ACTIVITY EFFECTS, COPPER DEFICIENCY, GOUT. INHALATION: CAN CAUSE  
BURNS. MAY CAUSE LIVER DAMAGE, DIFFIC ULT BREATHING, TOOTH EROSION,  
MOUTH SORENESS.

Explanation of Carcinogenicity:AN INGREDIENT OF THIS MIXTURE IS IARC  
GROUP 1: RECOGNIZED CARCINOGEN.  
SULFURIC ACID-IARC EVALUATION WAS  
BASED ON EXPOSURE TO THE MIST OR VAPOR OF CONCENTRATED SULFURIC  
ACID GENERATED DURING CHEMICAL P ROCESSES. THE PRODUCT DOES NOT  
CONTAIN ANY NTP LISTED CHEMICALS. ADDITIONAL  
CANCER/REPRODUCTIVE/TOXICITY DATA: NONE REPORTED.

Effects of Overexposure:EYES: CAUSES EYE BURNS. SKIN: CAUSES BURNS.  
INGESTION: CAUSES: BURNS. MAY CAUSE: NAUEA, VOMITING, DIARRHEA,  
RAPID PULSE & RESPIRATIONS, LOSS OF APPETITE, CIRCULATORY  
DISTURBANCES, ANEMIA, L  
IVER DAMA GE. INGESTION OF MOLYBDENUM MAY  
CAUSE LOSS OF COORDINATION, ENZYME ACTIVITY EFFECTS, COPPER  
DEFICIENCY, GOUT. INHALATION: CAN CAUSE BURNS. MAY CAUSE LIVER  
DAMAGE, DIFFICULT BREATHING, TOOTH EROSION, M OUTH SORENESS.  
Medical Cond Aggravated by Exposure:PRE-EXISTING EYE CONDITIONS, SKIN  
CONDITIONS, RESPIRATORY CONDITIONS, GOUT.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15  
MINUTES

. CALL PHYSICIAN. SKIN CONTACT: WASH SKIN WITH PLENTY OF WATER FOR 15 MINUTES. CALL PHYSICIAN IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE 1-2 GLASSES OF WATER. CALL PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR.

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Fire Fighting Measures  
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Flash Point:WILL NOT BURN.

Extinguishing Media:USE MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:NONE REPORTED. FLAMMABLE PROPERTIES: MATERIAL WILL NOT BURN. DURING A FIRE, CORROSIVE & TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION.

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Accidental Release Measures  
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Spill Release Procedures:ONLY PERSONS QUALIFIED TO RESPOND TO AN EMERGENCY INVOLVING HAZARDOUS SUBSTANCES MAY RESPOND TO A SPILL

29 CFR 1010.1200(A)(V). ABSORB SPILLED LIQUID WITH NON-REACTIVE SORBENT MATERIAL. STOP SPILLED MATERIAL FROM BEING RELEASED TO THE ENVIRONMENT. COVER WITH ALKALI. SCOOP INTO A BEAKER & DISSOLVE IN WATER. ADJUST PH TO 6-9 WITH ALKALI. FLUSH REACTED MATERIAL TO DRAIN IN EXCESS WATER.

Neutralizing Agent:SODA ASH, SODIUM BICARBONATE.

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Handling and Storage  
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Handling and Storage Precautions:STORE BETWEEN 10C & 25C. KEEP AWAY

FROM OXIDIZERS, REDUCERS. AVOID CONTACT WITH EYES, SKIN CLOTHING. DO NOT BREATHE MIST OR VAPORS. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. MAINTAIN IN GENERAL INDUSTRIAL PRACTICES WHEN USING THIS PRODUCT. FLAMMABILITY CLASS: NOT APPLICABLE.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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Exposure Controls/Personal Protection  
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Respiratory Protection:ADEQUATE VENTILATION.

Ventilation:USE GENERAL VENTILATION TO MINIMIZE EXPOSURE TO MI

ST.,  
VAPOR OR DUST.

Protective Gloves:DISPOSABLE LATEX GLOVES, LAB COAT.

Eye Protection:SAFETY GLASSES WITH TOP AND SID SHIELDS

Other Protective Equipment:HAVE A SAFETY SHOWER NEARBY. HAVE AN EYE  
WASH STATION NEARBY.

Work Hygienic Practices:MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES  
WHEN USING THIS PRODUCT.

Supplemental Safety and Health  
NONE SPECIFIED BY MANUFACTURER.

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

HCC:C1

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:=100.C, 212.F

Vapor Pres:NOT DETERMINED

Spec Gravity:1.14-1.21

pH: