

HACH COMPANY -- SULFURIC ACID STANDARD SOLUTION 0.030 N, CAT #413 -- 6810-00-798-9821

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Product Identification
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Product ID:SULFURIC ACID STANDARD SOLUTION 0.030 N, CAT #413

MSDS Date:04/17/1995

FSC:6810

NIIN:00-798-9821

Status Code:A

MSDS Number:CKBQW

=== Responsible Party ===

Company Name:HACH COMPANY

Box:389

City:LOVELAND

State:CO

ZIP:80539

Country:US

Info Phone Num:970-669-3050

Emerge

ncy Phone Num:303-623-5716

Resp. Party Other MSDS Num.:M00585

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:SP0450-00-M-D450

CAGE:91224

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Composition/Information on Ingredients
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Ingred Name:METHYL ALCOHOL

CAS:67-56-1

RTECS #:PC1400000

Minumum % Wt:15.

Maxumum % Wt:25.

OSHA PEL:260 MG/M3;200 PPM

ACGIH TLV:262 MG/M3;200 PPM

ACG

IH STEL:328 MG/M3;250 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SULFURIC ACID
CAS:7664-93-9
RTECS #:WS5600000
< Wt:.1
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:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:75.
Maxumum % Wt:85.

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

LD50 LC50 Mixture:NONE REPORTED.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:METHANOL IS A CUMULATIVE POISON.
METHANOL MAY CAUSE VISUAL IMPAIRMENT AND POSSIBLY BLINDNESS BY REPEATED OR PROLONGED EXPOSURE. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. CAN NOT BE MADE NONPOISONOUS. VAPOR HARMFUL. HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. TARGET ORGANS: OPTIC NERVE, CENTRAL NERVOUS SYSTEM, CARDIOVASCULAR SYSTEM.

Explanation of Carcinogenicity:CONTAINS AN EXPERIMENTAL TERATOGEN.
Effects of Overexposure:EYE: MAY CAUSE IRRITATION. SKIN: MAY CAUSE IRRITATION. SKIN: HARMFUL IF ABSORBED THROUGH THE SKIN. INGESTION: TOXIC CANNOT BE MADE NON-TOXIC. METHANOL MAY CAUSE IRRITATION OF EYES, VISUAL IMPAIRMENT OR BLINDNESS. CAUSES CARDIOVASCULAR EFFECTS SUCH AS CARDIAC DEPRESSION AND BLOOD PRESSURE CHANGES. CAUSES CENTRAL NERVOUS SYSTEM DEPRESSION, SYMPTOM MAY INCLUDE: DRUNKENNESS, DROWSINESS, DIZZINESS, LIGHTHEADEDNESS

S,
UNCONSCIOUSNESS AND COMA. MAY CAUSE HEADACHE WEAKNESS NAUSEA
VOMITING DEATH. INHALATION: METHANOL MAY CAUSE HEADACHE, WEAKNESS,
NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure: PRE-EXISTING SKIN CONDITIONS AND
EYE CONDITIONS.

===== 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 IF IRRI
TATION DEVELOPS.

INGESTION: CALL PHYSICIAN IMMEDIATELY. ONLY INDUCE VOMITING AT THE
INSTRUCTIONS OF A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN
UNCONSCIOUS PERSON. INHALATION: REMOVE TO FRESH AIR. GIVE
ARTIFICIAL RESPIRATION IF NECESSARY. CALL PHYSICIAN.

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

Flash Point Method: CC

Flash Point: =54.4C, 130.F

Autoignition Temp: Autoignition Temp Text: ND

Lower Limits: ND

Upper Limits: ND

Extinguishing Media: WATER, C

ARBON DIOXIDE AND DRY CHEMICAL.

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

Unusual Fire/Explosion Hazard: FLAMMABLE LIQUID. DO NOT EXPOSE TO
FLAMES. DO NOT EXPOSE TO SPARKS OR OTHER IGNITION SOURCES. MAY
REACT VIOLENTLY WITH: STRONG OXIDIZERS.

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

Spill Release Procedures: RELEASES OF THIS MATERIAL MAY CONTAMINATE THE
ENVIRONMENT. REMOVE ALL
COMBUSTIBLE MATERIAL FROM SPILL AREA. REMOVE
ALL IGNITION AND SPARK-CREATING SOURCES FROM THE SPILL AREA. COVER
SPILLED LIQUID WITH A COMMERCIALY AVAILABLE FLAMMABLE LIQUID
SORBENT SUCH AS VAPOR BARRIER BLANKET OR ACTIVATED CARBON TO AVOID
EVOLUTION OF FUMES. VAPORS MAY TRAVEL TO A SOURCE OF IGNITION AND
FLASH BACK.

Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

Handling and Storage Precaut

ions:AVOID CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT BREATHE MIST OR VAPORS. WASH THOROUGHLY AFTER HANDLING. MAINTAIN GENERAL INDUSTRIAL HYGIENE PRACTICES WHEN USING THIS PRODUCT.. STORAGE: KEEP AWAY FROM SPARKS, FLAMES AND OTHER IGNITION SOURCES. PROTECT FROM HEAT.

Other Precautions:SPILL OR RELEASE: MAY BE IGNITED BY: HEAT SPARKS, OR FLAMES. MATERIAL WILL FLOAT ON WATER CREATING A FIRE HAZARD. DIKE THE MATERIAL TO CREATE A BARRIER TO COMBUSTIBLES. MATERIAL CONTAINS

A COMPONENT WHICH IS REGULATED AS A HAZARDOUS AIR POLLUTANT. PRODUCT IS REGULATED AS RCRA HAZARDOUS WASTE.

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

Respiratory Protection:LABORATORY FUME HOOD.

Ventilation:GENERAL VENTILATION

Protective Gloves:DISPOSABLE LATEX GLOVES.

Eye Protection:SAFETY GLASSES WITH TOP AND SIDE SHIELDS.

Other Protective Equipment:LAB COAT

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

ASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

AVOID CONTACT WITH: EYES, SKIN AND CLOTHING. DO NOT BREATHE:

MIST/VAPOR. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM: SPARKS, FLAMES AND OTHER IGNITION SOURCES. PROTECT FROM HEAT.

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

HCC:F4

Boiling Pt:=82.C, 179.6F

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

Vapor Pres:ND

Vapor Density:ND

Spec Gravity:0.963

pH:1.7

Evaporation Rate & Reference:1.35(WATER=1)

Solubility

in Water:SOLUBLE

Appearance and Odor:CLEAR, COLORLESS LIQUID, ALCOHOLIC ODOR.

Percent Volatiles by Volume:ND

Corrosion Rate:0.0173 IN/YR STEEL

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

Stability Indicator/Materials to Avoid:YES

NONE REPORTED

Stability Condition to Avoid:STABLE WHEN STORED UNDER PROPER

CONDITIONS. AVOID CONTACT WITH HEAT, SPARKS, OPEN FLAMES OR OTHER IGNITION SOURCES.

Hazardous Decomposition Products:TOXIC FUMES OF CARBON MONOXIDE.

Conditions

to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:PRODUCT TOXICOLOGICAL DATA: LD50: NONE REPORTED. LC50: NONE REPORTED. DERMAL TOXICITY: METHANOL: SKIN MONKEY LDLO=393 MG/KG; SKIN RABBIT LD50=15800 MG/KG. SKIN & EYE IRRITATION DATA: NONE REPORTED. MUTATION DATA: METHANOL: DNA INHIBITION-HUMAN-LYMPHOCYTES-300 MMOL/L; DNA DAMAGE-ORAL RAT-10UG/KG. REPRODUCTIVE EFFECTS DATA: METHANOL:INHALATION MOUSE 1500 PPM/6H SPECIFIC DEVELOPMENT ABNORMALITIES-CENTRAL NERVOUS SYSTEM. INHALATION RAT 10000 PPM/7HR EMBRYO OR FETUS-FETOTOXICITY. INGREDIENT DATA: METHANOL: ORAL HUMAN LDLO=143 MG/KG; ORAL RAT LD50=5628 MG/KG. INHALATION RAT LC50=64000 PPM/4HR.

===== Ecological Information =====

Ecological:PRODUCT ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT: NO ECOLOGICAL DATA AVAILABLE FOR THIS PRODUCT. INGREDIENT ECOLOGICAL DATA: NO ECOLOGICAL DATA AVAILABLE FOR THE INGREDIENTS OF THIS PRODUCT.

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

Waste Disposal Methods:ELIMINATE ALL SOURCES OF IGNITION. DO NOT BREATHE THE FUMES. USE ONLY NON-SPARKING TOOLS. INCINERATE MATERIAL AT AN E.P.A. APPROVED HAZARDOUS WASTE FACILITY. EMPTY CONTAINERS: RINSE THREE TIMES WITH AN APPROPRIATE SOLVENT. DISPOSE OF EMPTY CONTAINER AS NORMAL TRASH.

===== MSDS Transport Information =====

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Transport Information:US DOT PROPER SHIPPING NAME : ALCOHOL, N.O.S.
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