

8-31-05

MSDS DATE: 4/07/92
CHANGE NO.: 8745For Assistance, Contact:
Regulatory Affairs Dept.
PO Box 907 Ames, IA 50010
(800) 227-4224HACH COMPANY
PO BOX 907
AMES, IA 50010Emergency Telephone #
Rocky Mountain Poison Ctr.
(303) 623-5716**I. PRODUCT IDENTIFICATION**PRODUCT NAME: Sulfuric Acid Standard Solution 0.035N
CAS NO.: NA CHEMICAL NAME: Not applicable
FORMULA: Not applicable CHEMICAL FAMILY: Not applicable**II. INGREDIENTS**Isopropanol
PCT: <10 CAS NO.: 67-63-0 SARA: NOT LISTED
TLV: 400 ppm PEL: 400 ppm
HAZARD: Moderately toxic; flammableSulfuric Acid
PCT: <1 CAS NO.: 7664-93-9 SARA: LISTED
TLV: 1 mg/M3 PEL: 1 mg/M3
RCRA: D002
HAZARD: Very corrosiveDemineralized Water
PCT: to 100 CAS NO.: 7732-18-5 SARA: NOT LISTED
TLV: Not applicable PEL: Not applicable
HAZARD: None**III. PHYSICAL DATA**STATE: liquid APPEARANCE: Clear and colorless ODOR: Isopropanol
SOLUBILITY IN: WATER: Miscible ACID: Miscible OTHER: Not determined
BOILING POINT: 89C MELTING PT.: fr. -1C SPEC GRAVITY: 0.9943 pH: 1.6
VAPOR PRESSURE: Not determined VAPOR DENSITY (air=1): ND
EVAPORATION RATE: 0.86 METAL CORROSIVITY - ALUMINUM: 0.041 in/yr
STEEL: 0.055 in/yr STABILITY: See Conditions to Avoid
STORAGE PRECAUTIONS: Store tightly closed in a cool, dry place.**IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA**FLASH PT.: >212F METHOD: closed cup
FLAMMABILITY LIMITS - LOWER: ND UPPER: ND
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None
SHOCK SENSITIVITY: None AUTOIGNITION PT.: ND
EXTINGUISHING MEDIA: water, carbon dioxide, or dry chemical
FIRE/EXPLOSION HAZARDS: May emit toxic fumes in fire
HAZARDOUS DECOMP. PRODUCTS: May emit toxic fumes of carbon monoxide, carbon dioxide and sulfur oxides in fire
OXIDIZER: No NFPA Codes: Health: 1 Flammability: 1 Reactivity: 0
CONDITIONS TO AVOID: Heat, flame, oxidizers**V. HEALTH HAZARD DATA**THIS PRODUCT MAY BE: irritating to eyes and skin.
ACUTE TOXICITY: Not determined
ROUTES OF EXPOSURE: Ingestion, inhalation
TARGET ORGANS: central nervous system
CHRONIC TOXICITY: Not determined
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined
CANCER INFORMATION: Carcinogenicity testing was inconclusive for an ingredient of this mixture.
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined
OVEREXPOSURE: Headache, weakness, drowsiness, lightheadedness, nausea, vomiting, irritation of the eyes and skin, unconsciousness
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin disorders, impaired pulmonary function such as obstructive airway diseases**VI. PRECAUTIONARY MEASURES**Wash thoroughly after handling.
Avoid contact with eyes, skin and clothing
Do not breathe mist or vapor.
PROTECTIVE EQUIPMENT: adequate ventilation, lab grade goggles, disposable gloves**VII. FIRST AID**EYE AND SKIN CONTACT: Immediately flush eyes and skin with water for 15 minutes. Remove contaminated clothing. Call physician.
INGESTION: Do not induce vomiting. Call physician immediately.
INHALATION: Remove to fresh air.**VIII. SPILL AND DISPOSAL PROCEDURES**IN CASE OF SPILL OR RELEASE: Absorb on paper. Burn in a chemical incinerator equipped with an afterburner and scrubber.
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.**IX. TRANSPORTATION DATA**D.O.T. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: Not applicable ID: NAI.C.A.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA ID: NA GROUP: NAI.M.O. PROPER SHIPPING NAME: Not Currently Regulated
HAZARD CLASS: NA ID: NA GROUP: NA**X. REFERENCES**

- 1) TLV's Threshold Limit Values and Biological Exposure Indices for 1988-1989. American Conference of Governmental Industrial Hygienists, 1988.
- 2) Air Contaminants, Federal Register, Vol. 54, No. 12, Thursday, January 19, 1989, pp. 2332-2983.
- 3) In-house information
- 4) Technical judgment
- 5) Fire Protection Guide on Hazardous Materials, 7th Ed. Quincy, MA: National Fire Protection Association, 1986.
- 6) NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards. Cincinnati: Department of Health and Human Services, 1981.
- 7) Sax, N. Irving. Dangerous Properties of Industrial Materials, 6th Ed. New York: Van Nostrand Reinhold Co. 1984.