

MSDS DATE: 11/06/96  
CHANGE NO.: 14092For 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: MolyVer @ 1 Molybdenum Reagent  
CAS NO.: NA CHEMICAL NAME: Not applicable  
FORMULA: Not applicable CHEMICAL FAMILY: Not applicable  
MSDS NUMBER: M00063**II. INGREDIENTS**Succinic Acid  
PCT: <60 CAS NO.: 110-15-6 SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: Severe eye irritant; may cause respiratory tract irritationDisodium Succinate, Anhydrous  
PCT: <35 CAS NO.: 150-90-3 SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: May cause irritation1,2-Cyclohexanediaminetetraacetic Acid, Trisodium Salt (CDTA)Na3  
PCT: <20 CAS NO.: 36679-96-6 SARA: NOT LISTED  
TLV: Not established PEL: Not established  
HAZARD: Toxicity unknown; may cause irritation**III. PHYSICAL DATA**STATE: solid APPEARANCE: White powder ODOR: Not determined  
SOLUBILITY IN: WATER: Soluble ACID: Soluble OTHER: Not determined  
BOILING POINT: NA MELTING PT.: dec 85-95°C SPEC GRAVITY: 1.52  
pH: of 5% soln. = 4.28 VAPOR PRESSURE: Not applicable  
VAPOR DENSITY (air=1): NA EVAPORATION RATE: NA  
METAL CORROSIVITY - ALUMINUM: 0.005 in/yr STEEL: 0.168 in/yr  
STABILITY: Stable  
STORAGE PRECAUTIONS: Store in a cool, dry place.**IV. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA**FLASH PT.: Not applicable METHOD: NA  
FLAMMABILITY LIMITS - LOWER: NA UPPER: NA  
SUSCEPTIBILITY TO SPONTANEOUS HEATING: None  
SHOCK SENSITIVITY: None AUTOIGNITION PT.: ND  
EXTINGUISHING MEDIA: water, carbon dioxide, or dry chemical  
FIRE/EXPLOSION HAZARDS: May emit acrid smoke and fumes in fire  
HAZARDOUS DECOMP. PRODUCTS: Acrid smoke and fumes in fire.  
OXIDIZER: No NFPA Codes: Health: 1 Flammability: 1 Reactivity: 0  
CONDITIONS TO AVOID: Extreme temperatures; moisture; contact with oxidizers**V. HEALTH HAZARD DATA**THIS PRODUCT MAY BE: Irritating to eyes and respiratory tract.  
ACUTE TOXICITY: Not determined  
ROUTES OF EXPOSURE: ingestion, inhalation  
TARGET ORGANS: Not determined  
CHRONIC TOXICITY: Not determined  
ROUTES OF EXPOSURE: Not determined  
TARGET ORGANS: Not determined  
CANCER INFORMATION: Not applicable  
ROUTES OF EXPOSURE: Not applicable  
TARGET ORGANS: Not applicable  
OVEREXPOSURE: Causes severe eye irritation; may cause respiratory tract irritation; may cause weakness and diarrhea.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye and respiratory tract conditions.**VI. PRECAUTIONARY MEASURES**Avoid contact with eyes and skin.  
Do not breathe dust.  
Wash thoroughly after handling.  
Keep away from oxidizers.  
PROTECTIVE EQUIPMENT: adequate ventilation, lab grade goggles, disposable latex gloves**VII. FIRST AID**EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Wash skin with soap and plenty of water.  
INGESTION: Give large quantities of water. Call physician immediately.  
INHALATION: Remove to fresh air. Give artificial respiration if necessary. Call physician.**VIII. SPILL AND DISPOSAL PROCEDURES**IN CASE OF SPILL OR RELEASE: Cover contaminated surfaces with soda ash or sodium bicarbonate. Mix and add water if necessary. Use litmus paper to make sure pH of slurry is neutral or add neutralizer until mixture stops bubbling. Scoop up the slurry and wash the neutral waste down the drain with excess water. Wash the site with soda ash solution.  
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: NA ID: NA GROUP: 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) NIOSH Registry of Toxic Effects of Chemical Substances, 1985-86. Cincinnati: U. S. Department of Health and Human Services, April, 1986.
- 6) Patty, Frank A. Industrial Hygiene and Toxicology, 3rd Revised Edition Volume 2. New York; A Wiley-Interscience Publication, 1981.

SPECIAL NOTE: 1,2-Cyclohexanediaminetetraacetic Acid Trisodium Salt may be used only as chelating reagent.