

MSDS DATE: 8/04/93
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: Dissolved Oxygen 2
CAS NO.: NA CHEMICAL NAME: Not applicable
FORMULA: Not applicable CHEMICAL FAMILY: Not applicable**II. INGREDIENTS**Lithium Hydroxide, Monohydrate
PCT: <65 CAS NO.: 1310-66-3 SARA: NOT LISTED
TLV: Not established PEL: Not established
HAZARD: Very toxic; corrosivePotassium Iodide
PCT: <40 CAS NO.: 7681-11-0 SARA: NOT LISTED
TLV: Not established PEL: Not established
HAZARD: May cause irritationSodium Azide
PCT: <5 CAS NO.: 26628-22-8 SARA: NOT LISTED
TLV: C: 0.11 ppm PEL: C: 0.3 ppm(NaNS)
HAZARD: Extremely toxic; severe explosion hazard**III. PHYSICAL DATA**STATE: solid APPEARANCE: White crystals ODOR: None
SOLUBILITY IN: WATER: Soluble ACID: Not determined
OTHER: Not determined BOILING POINT: NA MELTING PT.: 110°C
SPEC GRAVITY: 1.94 pH: of 5% soln. = 12.6
VAPOR PRESSURE: Not applicable VAPOR DENSITY (air=1): NA
EVAPORATION RATE: NA METAL CORROSIVITY - ALUMINUM: 0.248 in/yr
STEEL: ND STABILITY: See Conditions to Avoid
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: Not determined 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 iodine in fire;
Irritating fumes in contact with acids
OXIDIZER: No NFPA Codes: Health: 3 Flammability: 1 Reactivity: 1
CONDITIONS TO AVOID: Extreme temperatures; contact with moisture, acids or oxidizers.**V. HEALTH HAZARD DATA**THIS PRODUCT MAY BE: corrosive to eyes, skin and respiratory tract.
ACUTE TOXICITY: oral rat LD50 = 350mg/Kg = Very toxic
ROUTES OF EXPOSURE: ingestion, inhalation, skin absorption
TARGET ORGANS: central nervous system, liver, kidneys, spleen
CHRONIC TOXICITY: Not determined
ROUTES OF EXPOSURE: Not determined
TARGET ORGANS: Not determined
CANCER INFORMATION: An ingredient of this mixture is a potential carcinogen.
ROUTES OF EXPOSURE: ingestion
TARGET ORGANS: Not determined
OVEREXPOSURE: Causes severe burns, dizziness, nausea, central nervous system depression, coma, death. Chronic iodide overdose may cause skin rash, runny nose, headaches, fever and irritation of mucous membranes.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Chronic respiratory diseases, especially those obstructing the airway; skin disorders; eye conditions.
May lower high blood pressure.**VI. PRECAUTIONARY MEASURES**Avoid contact with eyes and skin.
Do not breathe dust.
Wash thoroughly after handling.
PROTECTIVE EQUIPMENT: fume hood, lab grade goggles, disposable latex gloves, lab coat**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. Give 1 - 2 glasses of water. Call a physician immediately. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. Give artificial respiration if necessary. Call physician.**VIII. SPILL AND DISPOSAL PROCEDURES**

IN CASE OF SPILL OR RELEASE: Scoop material into a beaker and dissolve with water. Neutralize to a pH between 6 and 9 with an acid such as hydrochloric acid. Flush neutralized waste to the drain with excess water. DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

IX. TRANSPORTATION DATAD.O.T. PROPER SHIPPING NAME: Lithium Hydroxide, Solid Mixture
HAZARD CLASS: Corrosive Material ID: UN2680I.C.A.O. PROPER SHIPPING NAME: Lithium Hydroxide Monohydrate Mixture
HAZARD CLASS: 8 ID: UN2680 GROUP: III.M.O. PROPER SHIPPING NAME: Lithium Hydroxide, Solid Mixture
HAZARD CLASS: 8 ID: UN2680 GROUP: II**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) Outside testing.
- 6) NIOSH Registry of Toxic Effects of Chemical Substances, 1985-86. Cincinnati: U. S. Department of Health and Human Services, April, 1987.
- 7) Sax, N. Irving. Dangerous Properties of Industrial Materials, 6th Ed. New York: Van Nostrand Reinhold Co. 1984.