



# MATERIAL SAFETY DATA SHEET

## AND SAFE HANDLING AND DISPOSAL INFORMATION

ISSUE DATE: September 10, 2002 **Product Name:** HTP-1150L HAZ CLASS: Corr  
 SUPERSEDES: 01/25/98 PRODUCT TYPE: Alkaline solution Page 1 of 3

### SECTION I - EMERGENCY CONTACTS

**ELDORADO CHEMICAL CO, INC.** TELEPHONE: (210) 653-9323 8AM-5PM(EST)M-F  
 14350 LOOKOUT ROAD NON-OFFICE HOURS: (800) 255-3924  
 SAN ANTONIO, TX 78233 **EMAIL: techsupport@eldoradochem.com**

TRANSPORTATION AND CHEMICAL EMERGENCY: CHEMTEL - 800-255-3924

### SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	PEL (PPM)	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PRODUCT
Potassium Hydroxide	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>		5%
Sodium Hydroxide	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>		25%

### SECTION III - HEALTH HAZARD DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use so long as prescribed safety precautions are practiced. See product bulletin for use instructions.

#### ACUTE EFFECTS OF OVEREXPOSURE:

This product in concentrated form is corrosive. Overexposure may lead to eye tissue damage which can be permanent. Skin contact may produce burns. Inhalation may produce upper respiratory irritation characterized by sore throat or difficulty breathing. Ingredients in this product may aggravate existing skin, eye, or respiratory disorders.

#### CHRONIC EFFECTS OF OVEREXPOSURE:

Repeated or prolonged skin contact may produce chronic inflammation or dermatitis, characterized by redness, scaling or itching. None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

EST'D PEL/TLV: 2mg/m<sup>3</sup> PRIMARY ROUTES OF ENTRY: Skin, Lungs

HMIS CODES: HEALTH 3; FLAM. 0; REACT. 1; PERSONAL PROTECT.COR; CHRONIC HAZ.none known

#### FIRST AID PROCEDURES:

- SKIN : Flush contaminated skin with plenty of water. Consult a physician if irritation develops.
- EYES : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation develops, seek medical attention immediately.
- INHALE: Move exposed person to fresh air. If irritation persists, get medical attention promptly.
- INGEST: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

### SECTION IV - SPECIAL PROTECTION INFORMATION

- PROTECTIVE CLOTHING : Rubber aprons, boots, and gloves. (Avoid all skin contact)
- EYE PROTECTION : Wear tight-fitting safety glasses especially if contact lenses are worn.
- RESPIRATORY PROTECTION: Open air or good room ventilation is normally adequate for safe use of this product.
- VENTILATION : Ventilation should be equal to outdoors. Use exhaust fans and/or exhaust hood in enclosed spaces.

### SECTION V - PHYSICAL DATA

BOILING POINT (F)	:>220°F	PH(CONCENTRATE)	:13+
SPECIFIC GRAVITY	:1.37	PH(USE DILUTION OF 1 %)	:12
VAPOR PRESSURE(MMHG)	:0.2mm/HG	VOC CONTENT (CONCENTRATE)	:5gm/L
EVAPORATION RATE (WATER=1)	:<1	APPEARANCE AND ODOR	:Brown
VAPOR DENSITY(AIR=1)	:1		liquid, mild odor
SOLUBILITY IN WATER	:Soluble		

### SECTION VI - FIRE AND EXPLOSION DATA

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FLASH POINT (F): None (TCC)

FLAMMABLE LIMITS LEL: None UEL: None

EXTINGUISHING MEDIA : Carbon dioxide, dry chemical, water fog, foam.

SPECIAL FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.

UNUSUAL FIRE HAZARDS : Fire exposed drums should be cooled with stream of water. May react with aluminum or other amphoteric metals and produce hydrogen gas

### SECTION VII - R E A C T I V I T Y D A T A

STABILITY : Stable

INCOMPATIBILITY (AVOID) : Heat, flame, spark, strong acids and/or oxidizers.

POLYMERIZATION : Will not occur.

HAZARDOUS DECOMPOSITION: Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

### SECTION VIII - S P I L L A N D D I S P O S A L P R O C E D U R E S

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Observe safety procedures in SECTION 4 & 9 during clean-up. Absorb spill on inert absorbent material. Pick up and place residue in a suitable waste container or, if permitted, flush to sewer. Thoroughly rinse spill area with water.

WASTE DISPOSAL METHOD:

Liquid wastes are not permitted in landfills. This product is considered a hazardous waste under RCRA. Unusable liquid may be absorbed on an inert absorbent material, drummed, and taken to a chemical or industrial landfill. In some areas disposal by flushing into a sanitary sewer with plenty of water and neutralization with a dilute acid such as acetic may be permissible. Consult local, state, and federal agencies for proper disposal method in your area.

RCRA HAZ. WASTE NOS.: D002

### SECTION IX - S P E C I A L P R E C A U T I O N S

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

Corrosive to skin and eyes.

Avoid contact with skin and eyes with protective clothing.

Keep away from food and food products.

Keep out of the reach of children.

Add slowly to water to avoid splattering.

### SECTION X - R E G U L A T O R Y I N F O R M A T I O N

DOT PROPER SHIP NAME: Corrosive liquid, N.O.S., (Potassium and Sodium Hydroxide), 8.

NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require alternate names and labeling in accordance with packaging group requirements.

DOT HAZARD CLASS: Corrosive

DOT PACKING GROUP: II

DOT I.D. NUMBER : UN-1760

DOT LABEL/PLACARD: Corrosive

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE (RQ IN A SINGLE CONTAINER): 4000 lbs

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### NOTICE

Thank you for your interest in and use of Eldorado products. We are pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Eldorado is concerned for your health and safety. Our products can be used safely with proper protective equipment and with proper handling practices consistent with label instructions and the MSDS. Before using any product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Eldorado advises that serious accidents have resulted from the misuse of "emptied" containers which can retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

### TERMS AND ABBREVIATIONS

#### Listed Alphabetically By Section

#### SECTION II: HAZARDOUS INGREDIENTS

**CAR:** Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.

**CAS#:** Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

**CBL:** Combustible - At temperatures between 100°F and 200°F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

**CNS:** Central Nervous System depressant which reduces the activity of the brain and spinal cord.

**COR:** Corrosive - Causes irreversible injury to living tissue (e.g. burns).

**DESIGNATIONS:** Chemical and common names of hazardous ingredients.

**EIR:** Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

**EXPOSURE LIMITS:** The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLVs, and OSHA PELs.

**ACGIH:** American Conference of Governmental Industrial Hygienists

**CEILING:** "The concentration that should not be exceeded in the workplace during any part of the working exposure." Source, ACGIH

**OSHA:** Occupational Safety and Health Administration.

**PEL:** Permissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

**PPM:** Parts per million - unit of measure for exposure limits.

**(S) SKIN:** Skin contact with substance can contribute to overall exposure.

**STEL:** Short Term Exposure Limit - Maximum concentration for a continuous 15-minute exposure period.

**TLV:** Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

**FBL:** Flammable - At temperatures under 100°F, chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

**HAZARDOUS INGREDIENTS:** Chemical substances determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

**HTX:** Highly toxic - the probable lethal dose for a 70 kg (150 lb.) man, which may be approximated as less than 6 teaspoons (2 tablespoons)

**IRR:** Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.

**N/A:** Not Applicable - Category is not appropriate for this product.

**N/D:** Not Determined - Insufficient information to make a determination for this item.

**RTECS#:** Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical substances.

**SARA:** Superfund Amendment and Reauthorization Act - Section 313 designates certain chemicals for possible reporting for the Toxic Chemical Release Inventory.

**SEN:** Sensitizer - Causes allergic reaction after repeated exposure.

**TOX:** Toxic - The probable lethal dose for a 70 kg (150 kg) man is one ounce (2 tablespoons) or more.

#### SECTION III: HEALTH HAZARD DATA

**ACUTE EFFECT:** An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.

**CHRONIC EFFECT:** Adverse effects that are most likely to occur from repeated exposure over a long period of time.

**EST'D PEL/TLV:** This estimated, time-weighted-average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

**HMIS CODES:** Hazardous Material Identification System - a rating system developed, by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated by a "YES". Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective equipment.

**PRIMARY ROUTE OF ENTRY:** The way one or more hazardous ingredients may enter the body and cause a generalized-systemic or specific-organ toxic effect.

**ING:** Ingestion - A primary route of exposure through swallowing of material.

**INH:** Inhalation - A primary route of exposure through breathing of vapors.

**SKIN:** A primary route of exposure through contact with the skin.

#### SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks.

**MSHA:** Mine Safety and Health Administration

**NIOSH:** National Institute for Occupational Safety and Health.

#### SECTION V: PHYSICAL DATA

**EVAPORATION RATE:** Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

**pH:** A value representing the acidity or alkalinity of an aqueous solution (Highly Acidic pH = 1; Neutral pH = 7; Highly Alkaline pH = 14)

**VOC CONTENT:** The percentage or amount in pounds per gallon of the product that is regulated as a Volatile Organic Compound under the Clean Air Act of 1990 and various state jurisdictions.

**SOLUBILITY IN WATER:** A description of the ability of the product to dissolve in water.

#### SECTION VII: REACTIVITY DATA

**HAZARDOUS DECOMPOSITION:** Breakdown products expected to be produced upon product decomposition by extreme heat or fire.

**INCOMPATIBILITY:** Keep product away from listed substances or conditions to prevent hazardous reactions.

**POLYMERIZATION:** Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction releasing excess pressure and heat.

**STABILITY:** Indicates the susceptibility of the product to spontaneously and dangerously decompose.

#### SECTION VIII: SPILL AND DISPOSAL PROCEDURES

**RCRA WASTE NOS:** RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

#### SECTION X: TRANSPORTATION DATA

**CWA:** Clean Water Act - Federal law which regulates chemical releases to bodies of water.

**RQ:** Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and, can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.

**TSCA:** Toxic Substances Control Act - A federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

#### DISCLAIMER

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