

Great Lakes Treatment Corporation

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MATERIAL SAFETY DATA SHEET

For Chemical Spill, Leak, Fire, Exposure or
Accident Call Day or Night (517) 566-8008.

PRODUCT IDENTIFICATION

PRODUCT NAME: 5474

DATE: October 26, 1989

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>COMPONENTS</u>	<u>OSHA PEL</u>	or	<u>ACGIH TLV</u>	<u>% By Weight</u>
Tetrasodium EDTA (Ethylenediaminetetraacetate) CAS #64-02-8			Not established	< 3.0
Sodium Hydroxide CAS #1310-73-2			2mg/m ³	<10.0
Potassium Carbonate CAS #548-08-7			Not established	5.0

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (°F): >212

SPECIFIC GRAVITY: 1.2

VAPOR PRESSURE (mmHg): <17

pH (FULL STRENGTH): 13.6

VAPOR DENSITY (Air=1): 0.6

EVAPORATION RATE: Similar to water.

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Clear to amber liquid, slight odor

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): >212°F

FLAMMABLE LIMITS: unk. LEL unk. UEL

EXTINGUISHING MEDIA: Water, dry chemical for small and large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and full personal protection equipment for small and large fires. Keep containers cool. Keep unnecessary people away. Isolate area; deny entry. Move containers from fire area if you can do so without risk. Stay upwind.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CO₂ may result in temperatures above 900°C. Sulfur Dioxide gas and Sodium Sulfide residue possible. Reaction with metals listed under Reactivity may cause hydrogen. Carbon monoxide possible from contact with food sugars. May react violently with acids or organic materials.

REACTIVITY DATA

STABILITY: Stable

MATERIALS TO AVOID: Strong acids, oxidizers. Organic materials, magnesium, aluminum, zinc (galvanized), tin, chromium, brass, bronze, food sugars.

HAZARDOUS DECOMPOSITION PRODUCTS: Considerable heat evolved on mixing—Small amounts of Carbon Monoxide may result from contact with food sugars.

HAZARDOUS POLYMERIZATION: Will not occur.

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CONTROL MEASURES

RESPIRATORY PROTECTION: Use adequate ventilation, avoid breathing vapors. Use appropriate vapor respirator if vapors prevail.

SKIN PROTECTION: Rubber gloves. Protect skin from contact.

EYE PROTECTION: Chemical Worker's Goggles

D.O.T. TRANSPORTATION DATA:

PROPER SHIPPING NAME: Corrosive Liquid NOS RQ: Yes
(Contains Sodium Hydroxide)

HAZARD CLASS: Corrosive Material I.D.: UN1760

MISCELLANEOUS REGULATORY CLASSIFICATIONS

SODIUM HYDROXIDE: CERCLA Hazardous Substances subject to section 304 (Emergency Release Notification). Toxic Chemicals subject to section 313 (Toxic Chemical Release Reporting). OSHA Floor List of Hazardous Chemicals subject to section 311 (MSDS) Submission) and section 312 (Inventory Reporting): OSHA Air Contaminants. ACGIH TLV Chemicals.

TETRASODIUM EDTA (Ethylenediaminetetraacetate): U.S. SARA Classifications: Immediate (acute) health hazard. Delayed (chronic) health hazard. This product is listed in the U.S. EPA TSCA Inventory.

ADDITIONAL INFORMATION

OTHER PRECAUTIONS: The information herein is given in good faith, but no warranty, expressed or implied, is made. Any use of this product or method of application which is not in accordance with Great Lakes instructions is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with OSHA Hazard Communication Regulations.

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HEALTH HAZARD DATA

INHALATION: May cause severe irritation. Repeated contact with concentrated vapors may cause chronic irritation with possible respiratory damage.

INGESTION: Will cause severe irritation. Toxic. Severe allergic reaction may occur in some asthmatics and sulfite sensitive individuals.

SKIN: Corrosive.

EYES: Corrosive. Permanent damage possible.

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes. Consult a physician immediately.

SKIN CONTACT: Flush with water for 15 minutes; if irritation occurs, consult physician. Remove contaminated clothing.

INHALATION: Remove to fresh air. Apply artificial respiration if breathing stops. Contact a physician. For chronic irritation, consult a physician.

INGESTION: Drink large amounts of water and contact a physician immediately.

PRECAUTIONS FOR SAFE HANDLING AND USE

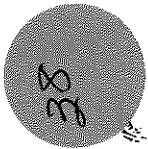
Do not touch spilled material. Stop leak if you can do so without risk. Use appropriate safety equipment. Stay upwind. Ventilate area. Keep unnecessary people away. Isolate area. Remove sources of ignition. Contain product. Keep out of low areas.

SMALL SPILLS: Absorb spills with sand. Put into appropriate container and cover.

LARGE SPILLS: Dam spills to contain liquid. Put into appropriate containers and cover.

DISPOSAL: This product is an EPA Hazardous Waste #002 (Corrosive) due to the pH. Dispose of in accordance with all applicable local, state, and federal regulations.

HANDLING-PRECAUTIONS: Store in dry, cool place. Avoid storage temperatures above 120°F. Recommended shelf life: one year. Keep tightly capped. Keep away from sources of ignition and reactive materials. Do not breathe vapors.



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