

Safety Data Sheet

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Manufactured for Industrial & Institutional Use Only by:



Chemical Industries, Inc.

PO Box 430 • 17040 Rapids Road

Burton, OH 44021 USA

PH: 440/834-4408 • FAX: 440/834-1142

www.troychemical.com

Product Name:

**1164 LIQUID ALKALINE
PRECLEAN**

FOR TRANSPORTATION EMERGENCY: CHEMTREC 800-424-9300

This number is to be used ONLY in the case of emergencies involving a spill, leak, fire exposure or accident involving chemicals.

Product Use:

For Industrial use only

FOR MEDICAL EMERGENCY: CHEMTREC 800-424-9300

FOR SDS INFORMATION: 800-233-8769

Prepared By: Russell Wightman

Section 2: HAZARD IDENTIFICATION



Signal Word:

DANGER

Hazard Statement:

CORROSIVE. CAUSES SEVERE BURNS TO SKIN AND EYES.

Precautionary Statements (PREVENTION)

P262 + P264 + P281 + P273 Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Use personal protective equipment as required. Avoid release to the environment

Precautionary Statements (RESPONSE)

P305 + P351 + P338 + P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Get immediate medical attention

P303 + P361 + P352 + P363 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash with soap and water. Wash contaminated clothing before reuse

P301 + P321 + P330 + P314 IF SWALLOWED: INDUCE VOMITING unless otherwise advised by a physician. Rinse mouth. Get Medical attention if you feel unwell

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements (STORAGE)

P404 + P402 Store in a closed container. Store in a dry place

Precautionary Statements (DISPOSAL)

P501 Dispose of contents and/or container in accordance with all Local, State and Federal regulations

Emergency Overview

Avoid contact with skin, eyes and clothing.

Eyes: Causes severe burns and irritation

Skin Contact: Brief contact may cause slight irritation with itching, local redness and possibly swelling. Prolonged contact causes chemical burns with local discomfort or pain, severe excess redness and swelling, tissue destruction, fissures and/or ulcer

Ingestion: Causes severe irritation or chemical burns of the mouth, throat, chest and abdomen, with possible nausea, vomiting, diarrhea, weakness, thirst.

Section 3: COMPOSITION INFORMATION

Chemical Name	Common Name/ Synonyms	CAS Number	Maximum %
Potassium Hydroxide	Potassium Hydroxide, Caustic Potash, Lye, Potassium Hydrate, KOH	001310-58-3	10

If this product contains chemicals subject to the reporting requirements of Section 313 of EPCRA of 1986, they will be listed in Section 15

N/E = None Established N/A = Not Applicable

Section 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

GET IMMEDIATE MEDICAL ATTENTION

Skin Contact: Immediately wash thoroughly with soap and water, then flush with plenty of water. Remove contaminated clothing and do not reuse before washing.

GET MEDICAL ATTENTION if symptoms persist.

Ingestion: CALL A PHYSICIAN. Unless otherwise advised by a physician, DO NOT induce vomiting. Do not give anything by mouth to an unconscious person.

GET IMMEDIATE MEDICAL ATTENTION

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.

GET MEDICAL ATTENTION if symptoms persist.

Note to Physician: No specific antidote is known. Therapy is directed at preventing absorption, administering to the symptoms as they occur and providing supportive therapy.

Section 5: FIRE FIGHTING MEASURES

Flash Point (TAG Closed Cup): > 200°F

Upper Flammable Limit (% in Air): Not Determined

Lower Flammable Limit (% in Air): Not Determined

Extinguishing Media: Water spray, dry chemical, carbon dioxide. Use water spray to cool nearby containers and structures exposed to fire.

Special Fire-Fighting Procedures: Evacuate non-emergency personnel to a safe area. Contact emergency

personnel as necessary. Avoid breathing smoke, fumes and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire & Explosion Hazards: None known

Section 6: ACCIDENTAL RELEASE MEASURES

Material Spill or Release: STEPS TO BE TAKEN: Wear protective equipment including rubber boots, rubber gloves, rubber apron and a self contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full face piece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection.

For large spills, contain by diking with soil or other noncombustible sorbent material and then pump into DOT approved waste containers; or absorb with noncombustible sorbent material, place in DOT approved waste containers. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS AND SOILS. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Section 7: HANDLING AND STORAGE

Precautions to be Taken Avoid skin and eye contact.

Avoid excessive inhalation of vapors and mists.

Wash thoroughly after handling. Clean contaminated clothing before reuse.

Store in cool, well ventilated place away from incompatible chemicals and materials.

An eye/face fountain and deluge shower should be available in the work area.

Empty containers may retain vapors or product residue.

Always obey hazard warnings and handle empty containers as if they were full.

Do not get in eyes, on skin or on clothing.

Do not swallow.

Do not breath vapors or mists.

Do not eat, drink or smoke in work area containing chemicals.

Section 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

Respiratory Protection: Use NIOSH/NSHA approved dust/mist filter respirator for routine work purposes when exposure to dusts or mists exceed the permissible exposure level (PEL). The respirator use limitations made by NIOSH/NHSA 20 CFR 1910.134.

Ventilation: Use ventilation adequate to keep exposures to hazardous ingredients below their Threshold Limit Values (TLV) or Permissible Exposure Levels (PEL). Local exhaust should be sufficient to maintain dust and mist levels below the PEL.

Eye Protection: Chemical splash goggles and/or full face shield if eye contact is likely.

Protective Gloves: Impervious gloves (rubber, nitrile or neoprene).

Other Protective Equipment: Appropriate protective clothing if working with corrosive or concentrated products. Products at use dilution MAY present less risk but protective clothing should still be worn.

Chemical Name	NIOSH REL	OSHA (PEL) TWA	ACGIH (TLV) TWA	OSHA (STEL) TWA
Potassium Hydroxide	2 mg/m ³	2 mg/m ³	N/E	2 mg/m ³

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid with no discernable odor

Boiling Range (760 mm Hg): > 212°F

Melting Range (760 mm Hg): Not Determined

Vapor Pressure (mm Hg): < 1

Vapor Density (Air = 1): > 1

Specific Gravity (Water = 1): 1.135 - 1.155

**% Volatile (By Weight,
Excluding Water):** 0

Evaporation Rate (BuAc = 1): < 1

Solubility (In Water): Complete

pH (Concentrate) > 13.75

pH (1% Aqueous) 11.25 - 13.25

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Conditions to Avoid: Excessive heat, open flames, sparks or any other ignition source.

Materials to Avoid: Contact with strong bases, peroxides, bleaches. Oxidizing agents may degrade polymer

Hazardous Decomposition Products: Burning can produce the following decomposition products: Oxides of carbon, silicon, nitrogen and hydrocarbons. Carbon monoxide is highly toxic if inhaled;

carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Hazardous Polymerization: Will Not Occur

Section 11: TOXICOLOGICAL INFORMATION

Chemical Name	NTP	IARC	ACGIH	Subpart Z	OSHA
Potassium Hydroxide	No	No	No	No	No

Section 12: ECOLOGICAL INFORMATION

No Data Available

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method(s): Dispose of contaminated material in accordance with all Federal, State, and Local regulations. Recycle if feasible or treat at an industrial or liquid waste facility.

Section 14: TRANSPORT INFORMATION

Packing Group: III	RCRA Identification Number: None
UN Proper Shipping Name: Compound, cleaning, liquid n.o.s.	UN Identification Number: UN1760
UN Hazard Classification: Corrosive liquid (containing Potassium Hydroxide)	UN Hazard Label: Corrosive

Section 15: REGULATORY INFORMATION

FEDERAL INFORMATION

Chemical Name	CAS #	Max % Clean Air Act	313 Toxic Chemicals	Clean Water Act	CERCLA Reportable Quantity (Pounds)	Reportable Product quantity (Pounds)
Potassium Hydroxide	001310-58-3	10	No	Yes	1000	10,000

STATE INFORMATION

Chemical Name	CAS #	Max %	State Lists	Proposition 65
Potassium Hydroxide	001310-58-3	10	CA2, CA3, DE, ID, MA4, 5, F8, NJ1S, NY, PA1E, WA, WI	No

INTERNATIONAL INFORMATION

Chemical Name	CAS #	Max %	Canadian DSL (Y/N)	EINECS Number	WHMIS
Potassium Hydroxide	001310-58-3	10	Yes	215-181-3	E

5. All ingredients in this product are listed on the USTSCA Inventory

Section 16: OTHER INFORMATION

The Supplier urges each customer or recipient of this Safety Data Sheet to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts

in ventilation, toxicology and fire prevention, as necessary or appropriate to use and understand the data contained in this Safety Data Sheet.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and other whom it knows or believes will use this material of the information in this Safety Data Sheet and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers and other users of the product, of this information.

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