

MATERIAL SAFETY DATA SHEET

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Product: **GLASSWARE CLEANER 5484**

MSDS No.: F5484 - Rev. 2.1 Date: 05/04
Replaces: 1.1 10/02
Updated Sections: 01, 02, 10

-- SECTION 01 - IDENTIFICATION AND INFORMATION --

Product or Trade Name:..... GLASSWARE CLEANER 5484
Chemical Name/Synonym:..... Proprietary Blend
Chemical Family: Alkaline Cleaning Liquid Mixture
Formula:..... Proprietary
Product Code:..... Z5484

HMIS
Hazard Rating:
Health:..... 3 0 - Least
Fire:..... 0 1 - Slight
Reactivity:..... 2 2 - Moderate
3 - High
4 - Severe

Product Description: Highly alkaline, chelated, low-foaming liquid cleaning compound

-- SECTION 02 - PHYSICAL DATA --

Boiling Point: 220° F Solubility in Water: Infinite
Vapor Pressure: N/D (mmHg) Specific Gravity: ~1.28 (H₂O=1)
Vapor Density: N/D [AIR=1] (Non-solvent material) % Volatile by Volume: < 35
Appearance: Clear, water-white to rose colored liquid Odor: Slight, sweet
pH: 13.8 ± 0.2, as received pH working solutions: 12.6 – 13.2

-- SECTION 03 - HAZARDOUS COMPONENTS --

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>% Range</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
* potassium hydroxide (caustic potash)	1310-58-3	25-35	2 mg/m ³	2 mg/m ³
ethylenediaminetetraacetate	64-02-8	< 10	None Listed	None Listed
Inert and/or non-hazardous components	-----	> 50	-----	-----

* Component hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or one or more state Right-To-Know lists.

-- SECTION 04 - FIRE AND EXPLOSION HAZARD DATA --

Flash Point: N/A (will not support combustion).
Extinguishing Media: Small Fire: CO₂, water fog, dry chemical; Large Fire: Alcohol-type or all-purpose-type foam.
Special Fire Fighting Procedures: Use self-contained breathing apparatus; water may be used to cool adjacent containers.

-- SECTION 05 - REACTIVITY DATA --

Stability: Stable.
Incompatibility: Strong acidic oxidizers, aluminum, zinc, tin and their alloys.
Hazardous Decomposition Products: Carbon monoxide may form upon thermal degradation.
Hazardous Polymerization: Will not occur.
Conditions to Avoid None currently known.

(continued)

-- SECTION 06 - SPILL, LEAK, AND DISPOSAL PROCEDURES --

Small Spills: Absorb with sand or inert material; scoop up and dispose to proper container.
Large Spills: Prevent spread of spill by dyking. Salvage uncontaminated material if possible. Absorb remainder of spill with inert material; scoop up and dispose to proper container.

ALWAYS DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES FOR THAT TYPE OF MATERIAL.

-- SECTION 07 - HEALTH HAZARD DATA --

EYE CONTACT:..... Severe irritation or irreparable chemical burn may occur if not irrigated immediately.
SKIN CONTACT: Skin irritation to severe chemical burn is likely depending upon concentration and temperature of use.
INHALATION:..... Not normally encountered through normal usage. Mists caused by pressure spray or encountered when opening jet spray cabinets and industrial washers may present a severe respiratory hazard.
INGESTION: Not normally encountered. Assume chemical burns to the esophagus and digestive tract.
EFFECTS OF OVEREXPOSURE:..... None currently known.
IARC and NTP NONE of the ingredients in this product are listed by the NTP, IARC, or OSHA as possible carcinogens.

-- SECTION 08 - FIRST AID --

EYES: **IMMEDIATELY** flush with water for a minimum of 15 minutes (industry safety standard for all materials). Seek medical attention if irritation persists.
SKIN:..... Flush with water; wash thoroughly with soap and water after handling.
INHALATION:..... Remove to fresh air.
INGESTION: **DO NOT INDUCE VOMITING** – Call poison control or seek immediate medical attention. Administer several large glasses of water followed by citrus drink if available . **Never give anything by mouth to an unconscious person.**

-- SECTION 09 - SPECIAL HANDLING INFORMATION --

VENTILATION:..... None normally required; local exhaust sufficient to eliminate mists from overspray or boiling tanks.
RESPIRATORY PROTECTION:..... None normally required; NIOSH approved respirator for mist conditions.
PROTECTIVE CLOTHING:..... Chemical resistant gloves or rubber or neoprene when mixing or handling.
EYE PROTECTION: Tight fitting or chemical workers goggles if splashing is anticipated.
OTHER PROTECTION:..... Coveralls, chemically resistant shoes, shower and eye wash facility.
GOOD MANUFACTURING PRACTICE: Add slowly to water when mixing with constant stirring to avoid violent exothermic reactions.

-- SECTION 10 - REGULATORY AND ADDITIONAL INFORMATION --

HANDLING AND STORAGE: Do not breathe vapors or mist. Do not allow contact with eyes, or leave in contact with skin for prolonged periods. Wash contaminated clothing prior to re-use. Do not allow contact with oxidizers. Empty Containers: Do not reuse empty containers for storage of foodstuffs or potable water. For returnable drums or drums set aside for reconditioner, empty drums as completely as possible and fit bungs tightly with undamaged closures. D.O.T. regulations forbid transportation of partially filled and unclosed containers.

D.O.T.: Shipping Classification: Compounds, cleaning, liquids, n.o.s., (potassium hydroxide), 8, NA1760, PGII -- ERG# 154

TSCA - The ingredients in this material are listed on the TSCA Inventory.

SARA Title III Information (for potassium hydroxide as hazardous component of this material): A) Sections 311/312 - Acute, Reactive; B) Section 313 – Listed: Immediate Health Hazard; C) Section 302 – Not Listed as an “Extremely Hazardous Substance.”

CERCLA Information (for all components): None Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with NRC RQs.

Abbreviations Used in this Material Safety Data Sheet: < = Less Than; > = Greater Than; N/A = Not Applicable; N/E = Not Established; N/L = Not Listed; N/D = Not Determined; TWA = Time Weighted Average; STEL = Short Term Exposure Limit; PEL = Permissible Exposure Limit; NIOSH = National Institute of Occupational Safety & Health; OSHA = Occupational Safety & Health Administration; ACGIH = American Conference of Government and Industrial Hygienists; NTP = National Toxicology Program; IARC = International Agency for the Registration of Carcinogens; TSCA = Toxic Substance Control Act; SARA = Superfund Amendment Reauthorization Act; RQs = Reportable Quantities; CERCLA = Comprehensive Environmental Response Compensation and Liability Act; NRC = National Response Center; RCRA = Resource Recovery and Conservation Act.

The information herein is given in good faith, but no warranty, express or implied, is made.