

# SAFETY DATA SHEET

This Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right to Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS.

**Effective Date:** 3/1/16

**Supersedes:** 3/24/15

**MSDS No:** R4511

## Low Temp Machine Dishwashing Liquid

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product Name:** Low Temp Machine Dishwashing Liquid

**Product Code:** R4511

**Recommended Use:** Machine Dish

**Proper Shipping Name:** UN1814, Potassium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154)

**Manufacturer:**

EXSL/Ultra Labs, Inc. (510-324-4567)

**Emergency Phone:** (800) 535-5053

Specialty Chemical Division

30921 Wiegman Road, Hayward, California 94544 USA

**COMMENTS:** To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

### 2. HAZARDS IDENTIFICATION



**Classification** - Acute Toxicity, Oral, Dermal Inhalation: 5; Skin Corrosion/Irritation: 1A; Eye Damage/Irritation: 1

**DANGER! Hazard Statement** -Harmful if swallowed; Harmful if inhaled; Causes severe skin burns and eye damage; Causes serious eye damage

**Precautionary Statements – Prevention:** Wash thoroughly after handling; Do not eat, drink or smoke when using this product; Wear protective gloves/protective clothing; Avoid breathing mist/vapors/spray; Use in a well-ventilated area; Wear eye protection.

**Response:** If swallowed: Immediately call a poison center/doctor; Rinse mouth; If on skin: Wash with plenty of water; If inhaled: Remove person to fresh air and keep comfortable for breathing; If skin irritation occurs: Get medical advice/attention; Take off contaminated clothing and wash it before reuse; if in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing; If eye irritation persists: get medical advice/attention.

**Storage:** Store locked up; **Disposal:** Dispose of contents/container in accordance with local/regional/national regulations.

**Hazards not otherwise classified:** None

**Reproductive Toxicity**

**Reproductive Effects:** Not Available

**Medical Conditions Aggravated:** None known

**Teratogenic Effects:** Not Available

**Sensitization:** Not Available

**Target Organ Statement:** Contains material which can cause gastrointestinal and respiratory tract effects based on animal data.

**Comments:** For detailed toxicological information see Section 11.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

	CAS#	PCNT%
Potassium Hydroxide	1310-58-2	5 – 10

### 4. FIRST AID MEASURES

**Eyes:**..... Flush out immediately for at least 20 minutes with running water and seek medical attention. Washing eyes within one minute is essential to minimizing eye damage. Hold eyelids apart to ensure flushing of the entire surface. Seek medical attention.

**Skin:** ..... Immediately wash with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash before reusing. Seek medical attention.

**Ingestion:** .... Never give anything to an unconscious person. If swallowed, **do not** induce vomiting. Give large quantities of water or milk. If vomiting occurs, keep airways clear. Seek medical attention.

**Inhalation:** ... Move person to fresh air and away from exposure. If breathing is difficult, administer oxygen and seek medical attention. Give artificial respiration if victim is not breathing.

**Most important symptoms and effects, both acute and delayed:** Causes burns by all exposure routes. Product is a corrosive material. Skin: Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis. Eye: Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Ingestion: Chronic Symptoms: None expected under normal conditions of use.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention.

### 5. FIRE FIGHTING MEASURES

**Flammable Class:** Nonflammable

**Flame Propagation or Burning Rate of Solids:** Not Applicable

**General Hazard:** Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

**Extinguishing Media:** Alcohol type foam, CO2 (Carbon Dioxide), Dry Chemical, Water Fog

**Hazardous Combustion Products:** None

**Fire Fighting Procedures:** This product is a nonflammable substance. Fire, however, may create hazardous decomposition and combustion products. Cool exposed containers with water spray to prevent overheating.

**Fire Fighting Equipment:** Firefighting personnel must use respiratory and eye protection. Use full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) for all indoor fires and any significant outdoor fires. SCBA may not be required for small outdoor fires easily extinguished with a portable fire extinguisher.

**Sensitive to Static Discharge:** None; **Sensitivity to Impact:** None

**EXSL/Ultra Labs, Inc.**  
**FORMULAS THAT MEET THE CHALLENGE**  
*Specialty Industrial Chemicals*  
Hayward, CA  
(510) 324-4567

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### 6. ACCIDENTAL RELEASE MEASURES

**Small Spill:** Wearing the appropriate personal protective equipment designated in Section 8, move the leaking container to a containment area or rotate the container so that the opening is above the liquid level.

**Large Spill:** Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Wearing the appropriate personal protective equipment designated in Section 8, close or cap valves and/or block or plug hole in leaking container and transfer to another container. Contain material as described above and call the local fire or police department for immediate emergency assistance.

#### Environmental Precautions

**Water Spill:** Use appropriate containment to avoid runoff or release to sewer or waterways.

**Land Spill:** Use appropriate containment to avoid runoff or release to ground.

**General Procedures:** Remove containers of strong acids from release area. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Do not get water inside containers.

**Release Notes:** If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802.

**In case of accident or road spill notify:** INFOTRAC in USA or Canada at 800-535-5053 or internationally at (International code)+1-352-323-3500

**Comments:** See Section 13 for disposal information and Section 15 for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

### 7. HANDLING AND STORAGE

**Handling:** Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

**Storage:** Store in unopened containers under cool and dry conditions. Do not store with, or close to acids. Store locked up.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** If dust, vapors, or mists are generated, provide local exhaust ventilation to control airborne levels below the exposure limit.

#### Personal Protective Equipment

**Eyes and Face:** Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

**Skin:** Where contact is likely, wear neoprene chemical resistant gloves, a chemical suit, rubber boots, chemical safety goggles and a face shield.

**Respiratory:** Always wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.

**Work Hygienic Practices:** Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Follow good personal hygiene practices.

**Comments:** ACGIH's Guide to Occupational Exposure Values don't list PEL's, TLV's or OEL's for this product or its ingredients.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point and Method:** None (Cleveland Open Cup)

**Flammability Limits (LEL/UEL):** Not Available

**Autoignition Temperature:** None

**Physical State:** Liquid

**Odor:** None

**Color:** Red

**pH (1% Soln.):** 12.5

**Vapor Pressure:** Not Available

**Vapor Density:** Not Available

**Boiling Point:** > 100°C (214°F)

**Freezing Point:** 0°C (32°F)

**Melting Point:** Not Applicable

**Solubility in Water:** Complete

**Evaporation Rate:** 1.0

**Density:** Not Available

**Specific Gravity:** 1.158 @ 20°C/4°C

**Viscosity:** 1 – 3 cps at 25°C

**Decomposition Temperature:** Not Available

**Coefficient Oil/Water:** Not Available

### 10. STABILITY AND REACTIVITY

**Stable:** Yes

**Hazardous Polymerization:** No

**Polymerization:** Will not occur

**Stability:** The product is stable under normal ambient conditions of temperature and pressure.

**Conditions to Avoid:** Heat, temperatures above 200°C.

**Hazardous Decomposition Products:** None

**Incompatible Materials:** Strong Acids

### 11. TOXICOLOGICAL INFORMATION

**Eyes:** Not Available

**DERMAL LD50:** Not Available

**Oral LD50:** Not Available

**Inhalation LC50:** Not Available

**Eye Effects:** This material is corrosive to the eyes; **Skin Effects:** This material is irritating to the skin.

**Target organs:** Eyes, skin, gastrointestinal tract and respiratory system

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation. May cause pulmonary edema; **Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis **Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision **Symptoms/Injuries After Ingestion:**

Ingestion is likely to be harmful or have adverse effects **Chronic Symptoms:** None expected under normal conditions of use.

**IARC: Listed by IARC – No; NTP: Listed by NTP - No**

**OSHA: Listed by OSHA – No; Sensitization:** Not Available

**Reproductive Effects:** Not Available

**Teratogenic Effects:** Not Available

**Mutagenicity:** Not Available

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**Potassium Hydroxide:** 1310-58-2 - Acute Oral Toxicity LD50 > 273 mg/kg (Rat); Acute Dermal Toxicity LD50 > 2000 mg/kg; Acute Inhalation Toxicity LD50 > 20 mg/l

### 12. ECOLOGICAL INFORMATION

**Environmental Data:** May cause adverse environmental impact if material reaches waterways.

**Ecotoxicological Information:** Not Available

**Distribution:** Not Available

**Chemical Fate Information:** Not Available

### 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

**For Large Spills:** Contain material and call local authorities for emergency assistance. In consultation with the appropriate authorities, determine the disposal method or contact EXSL/Ultra Labs, Inc.

**Product Disposal:** Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

**Empty Container:** Rinse drums with water before disposal or reuse in accordance with applicable regulations.

**GENERAL COMMENTS:** Refer to Section 6, Accidental Release Measures for additional information.

### 14. TRANSPORTATION INFORMATION

**Road and Rail (ADR/RID):** 8 (C5) Corrosive substances

**Kemler Number:** 80

**Hazard Class:** 8 (C5) Corrosive substances

**Air (ICAO/IATA)**

**Shipping Name:** UN1814, Potassium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154)

**Technical Name:** Mixture

**UN/NA Number:** UN1814

**Primary Hazard Class/Division:** 8

**Packing Group:** II

**Label:** Corrosive

**Remarks:** For corrosive materials in Packing Group II, inner packaging not over 1.0 L (0.3 gallon) net capacity each for liquids or not over 1.0 kg (2.2 pounds) net capacity each for solids, packed in a strong outer packaging.

**Vessel (IMO/IMDG)**

**Shipping Name:** UN1814, Potassium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154)

**Technical Name:** Mixture

**UN/NA Number:** UN1814

**IMDG Class/Division:** 8

**Packing Group:** II

**Label:** Corrosive

**Marine pollutant:** No

**EMS Number:** F-A,S-B

**Remarks:** Limited quantity

### 15. REGULATORY INFORMATION

#### European Community

##### EEC Label Symbol and Classification

"C" - Corrosive

R34: Causes burns.

S36/39: Wear suitable protective clothing and eye/face protection.

S24/25: Avoid contact with skin or eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of soap and water.

**European Community Regulatory:** All intentional ingredients are listed on the European's EINECS Inventory.

### 16. OTHER INFORMATION

**Reason for Issue:** Update SDS.

**Approved by:** Jon Tooper, Title: Product Stewardship Director

**Prepared by:** Product Stewardship Department

**Information Contact:** Jon Tooper

**Revision Summary:** Revision #: 1 This SDS replaces the March 24, 2015 SDS.

**Manufacture Disclaimer:** Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.