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MATERIAL SAFETY DATA SHEET

EMERGENCY OVERVIEW

This corrosive alkaline liquid has health hazards upon exposure to vapors and may cause eye, skin or respiratory irritation. Do NOT swallow--possible risk of irreversible effects if swallowed. Get immediate medical attention if ingested or if eye contact occurs. Harmful health hazards of FINACLEAN decrease when diluted with water.

NFPA RATING: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GENERIC NAME: Liquid alkaline cleaner

ISSUE DATE: February 21, 2006

THIS LUBRICANTS USA PRODUCT IS:

FINACLEAN

CAS NUMBER:

Mixture

SYNONYMS / GENERAL NAMES:

Multi purpose cleaner/degreaser

24 HOUR EMERGENCY TELEPHONE:

(CHEMTREC) 1-800-424-9300

TECHNICAL INFORMATION:

1-800-442-5823

2. COMPOSITION / INFORMATION ON INGREDIENTS / HAZARDOUS INGREDIENTS

COMPONENTS	CAS NO.	%	HAZARD DATA
Water	7732-18-5	70-90%	ND
Potassium hydroxide	1310-58-3	0.2-1%	ND
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	5-10%	ND
Alkoxylated alcohol	Proprietary	1-5%	ND
Tetrapotassium pyrophosphate	7320-34-5	5-10%	ND

3. HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY:	Skin contact, eye contact, inhalation, and ingestion.
TARGET ORGANS:	Skin, lungs, eyes, digestive tract.
SKIN or EYE CONTACT	Can cause severe irritation or burns. AVOID CONTACT.
INHALATION:	Spray mist can cause irritation or burns of airways and lungs.
INGESTION	Dangerous by ingestion. May cause severe irritation or burns to digestive tract. DO NOT SWALLOW.
REPRODUCTIVE EFFECTS:	No data.
CANCER INFORMATION:	No data.

4. FIRST AID MEASURES

EYES:	May cause moderate corneal injury. Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention immediately.
DERMAL:	Remove contaminated shoes or clothing. Flush exposed skin with water for 15 minutes. Seek medical attention if tissue appears damaged or if irritation persists.
INGESTION:	Do not induce vomiting. Give plenty of water or milk and call a physician immediately. Never give anything by mouth to an unconscious person.
INHALATION:	Remove from area of exposure. If breathing is difficult or irritation persists, call a physician.

INJECTION:	Injection of fluid requires immediate medical attention.
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5. FIRE FIGHTING MEASURES

FLASH POINT, °C(°F): NOT FLAMMABLE. This is an aqueous fluid.
FLAMMABLE LIMITS (% BY VOLUME): **LOWER:** N/D **UPPER:** N/D
EXTINGUISHING MEDIA: Use media appropriate for any surrounding combustible substances (water fog, CO₂, dry chemical, foam).
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water. Do not enter confined areas without full protective equipment, including a positive pressure NIOSH
AUTOIGNITION TEMPERATURE: N/A
EXPLOSION DATA: N/A
NFPA RATING: **HEALTH:** 2 **FLAMMABILITY:** 0 **REACTIVITY** 0
INSTRUCTIONS: Pressure will increase in over heated, closed containers.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Do not touch damaged containers or spilled material unless wearing appropriate protective equipment.
For all spills, neutralize and/or soak up residue with dry earth, sand, or other inert absorbent material after stopping the source of leak, if possible. Dike and contain the spill and recover free liquid for large spills. Prevent entry into waterways or sewers. Neutralize and/or soak up residue with dry earth, sand, or other inert absorbent materials. Store and dispose of properly. Flush area with water. Where feasible and appropriate, remove contaminated soil. Comply with all laws and regulations.

Ecotoxicity Small discharges are expected to cause only localized and non-persistent environmental damage. Expected to be toxic to most water organisms. Neutralized product has not been examined for ecotoxicity.

Environmental fate The product is caustic and will contaminate water. For detailed ecological call the non-emergency number shown in section 1.

7. HANDLING AND STORAGE

HANDLING & STORAGE PROCEDURES: Store separate from: acids or oxidizing materials. Store separately as a corrosive liquid.

General ventilation and local exhaust recommended where the product is stored or transferred. Build up of mists/vapors in the working atmosphere must be prevented.

Keep container closed. Maintain ambient temperatures. Avoid prolonged breathing of mists. Use with adequate ventilation. Corrosive to the eyes and skin. Severe internal irritation and damage can result if ingested. Avoid contact with eyes, skin or clothing. Do not swallow. Keep out of reach of children.

Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers without neutralizing the cleaner or thoroughly cleaning the drum. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of mists and/or vapors below the recommended exposure limits. An eye wash station and safety shower should be located near the workstation.
GLOVES PROTECTION:	Use gloves constructed of impervious materials such as rubber, neoprene, nitrile or polyethylene to avoid contact.
EYE PROTECTION:	Use safety goggles or a face shield to avoid contact. Have suitable eye wash water available.

RESPIRATORY PROTECTION:	Respirators should be used when engineering or other controls are not technically feasible. When required, use only a MSHA/NIOSH approved air supplied respirator or an air-purifying respirator.
CLOTHING RECOMMENDATION:	Avoid skin contact by using a chemical-resistant coverall or clothing should be worn. This might include long-sleeves, apron, slicker suit, boots and additional facial protection.
OTHER COMMENTS:	
Occupational exposure guidelines	Applicable workplace exposure levels (TLV) for components: 2-butoxyethanol (111-76-2) component PEL/TWA 25 ppm, and skin (OSHA, ACGIH) Sodium hydroxide (1310-73-2) PEL/TWA: 2 mg/m ³ (OSHA, ACGIH), ceiling

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear liquid
ODOR:	Mild or faint odor
pH:	Basic (13.2); at 2% 11.7
VAPOR PRESSURE, mm Hg (25°C):	ND
VAPOR DENSITY:	ND
MELTING POINT:	ND
BOILING POINT, 760 mm Hg, °C:	100 C (212 F)
SOLUBILITY IN WATER:	Infinitely soluble in water.
SPECIFIC GRAVITY:	1.08 (Water = 1)
EVAPORATION RATE:	1 (water = 1)
VISCOSITY 40°C (100°C)	ND
MOLECULAR WEIGHT:	N/A
PERCENT VOLATILE:	ND

10. STABILITY AND REACTIVITY

STABILITY:	Stable
INCOMPATIBILITY:	Strong oxidizers, strong acids. Avoid glass (may etch glass)
POLYMERIZATION:	Will not occur
THERMAL DECOMPOSITION:	Smoke, fumes, oxides of carbon.

11. TOXICOLOGICAL INFORMATION

OVERVIEW	Corrosive liquid. No experimental toxicological data on the preparation as such is available. Toxicological data on the ingredients is shown below.
DERMAL IRRITATION:	Corrosive liquid. Can cause severe irritation or burns.
INHALATION TOXICITY:	Corrosive liquid. Can cause severe irritation or burns.
INGESTION IRRITATION:	Corrosive liquid. Can cause severe irritation or burns to digestive tract.
AGGRAVATED MEDICAL CONDITIONS:	ND
CHRONIC OR ACUTE EXPOSURE SYMPTOMS	Eyes: Irritation, redness, tearing, pain, swelling. Skin: Irritation, redness, extreme dryness and peeling or scarring. Respiratory system: Nasal and respiratory irritation, pneumonitis, tissue damage. No chronic effects are known
OTHER REMARKS	COMPONENT: Potassium hydroxide. Corrosive effects. WHMIS E Acute toxicity. WHMIS D1B. Toxic dose, LD 50 is 365 mg/kg (oral/rat).

12. HEALTH INFORMATION

HMIS CODE:	HEALTH: 2	FIRE: 0	REACTIVITY: 0
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No	HIGHLY TOXIC	No	SENSITIZER
Yes	TOXIC	No	REPRODUCTIVE EFFECTS
Yes	CORROSIVE	No	MUTAGEN
No	IRRITANT		

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: If discarded as supplied, material meets RCRA characteristic definition of corrosivity, D0002. The toxicity characteristic has not been evaluated. Under RCRA the applicable hazardous waste classification must be evaluated prior to disposal of the material. Use of the product, processing or contamination may render the resulting material hazardous or alter waste classification.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:	Potassium hydroxide solution
DOT HAZARD CLASS:	8
HAZARD IDENTIFICATION NUMBER:	UN1814
DOT PLACARD:	DOT 17 (CORROSIVE (black/white diamond))
COMPATIBILITY CATEGORY:	

15. REGULATORY INFORMATION

SARA SECTION 313 - TOXIC CHEMICALS:

This product contains no toxic chemicals under SARA Section 313 and 40 CFR Part 372.

SARA SECTION 311 - HAZARD CATEGORIES:

This product may meet one or more of the criteria for the hazard categories defined in 40 CFR Part 370 as established by Sections 311 and 312 of SARA as indicated below:

YES	IMMEDIATE (ACUTE) HEALTH HAZARD	NO	SUDDEN RELEASE OF PRESSURE HAZARD
NO	DELAYED (CHRONIC) HEALTH HAZARD	NO	REACTIVE HAZARD
NO	FIRE HAZARD		

SARA SECTION 302 – EXTREMELY HAZARDOUS WASTE:

This product is not known to contain any components in concentrations greater than one percent that are listed as Extremely Hazardous Substances in 40 CFR Part 355 pursuant to the requirements of Section 302(a) of SARA.

CLEAN WATER ACT (CWA):

Under the CWA, discharges of fluids to surface water without proper Federal and State permits must be reported immediately to the National Response Center at (800) 424-8802.

CERCLA HAZARDOUS SUBSTANCES:

As defined by CERCLA, the term “hazardous substance” includes sodium hydroxide. Reportable quantity for this product is 1000 pounds (453 kg).

U.S. TSCA INVENTORY

TSCA Inventory: All components of this material are on the TSCA inventory.

CALIFORNIA PROPOSITION 65

This product contains chemicals known to the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute are trace amounts of

- 1,4-Dioxane, CAS #123-91-1 (less 1 ppm),
- Ethylene oxide, CAS 75-21-8 (less than 1 ppm)
- Acetaldehyde, CAS 7507-0 (less 1 ppm)

NEW JERSEY RIGHT-TO-KNOW LABEL

Caustic cleaner. See ingredients listed under Section 2.

ADDITIONAL REGULATORY REMARKS

None.

16. OTHER INFORMATION

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information was prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Lubricants USA believes this information to be reliable and up to date as of the date of publication, but makes no warranty that it is.

NFPA HAZARD RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4
HMIS HEALTH RATING	least - 0	slight - 1	moderate - 2	high - 3	extreme - 4

AP = approximately EQ = equal > = greater than < = less than NA = not applicable
 ND = no data NE = not established

ACGIH = American Conference of Governmental Industrial Hygienists

AIHA = American Industrial Hygiene Association

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act (1980)

EPA = Environmental Protection Agency

HMIS = Hazardous Materials Information System

IARC = International Agency for Research on Cancer

NIOSH = National Institute of Occupational Safety and Health

NPCA = National Paint and Coating Manufacturers Association

OSHA = Occupational Safety and Health Administration

SARA = Superfund Amendments and Reauthorization Act (1986)

NFPA = National Fire Protection Association

NLGI = National Lubricating Grease Institute

NTP = National Toxicology Program

RQ = Reportable quantity

TSCA = Toxic Substance Control Act