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MATERIAL SAFETY DATA SHEET



CORPORATE HEADQUARTERS
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BRANCH WAREHOUSES IN PRINCIPAL CITIES

Complies with OSHA's 29 CFR
1910.1200 and State Hazard
Communication Standards

INFORMATION (716) 336-2200

Medical Emergency Telephone (716) 266-2283
or INFOTRAC 1-800-535-5053

SECTION 1

PRODUCT IDENTITY: GREASE-OFF, High Foaming Degreaser

DATE PREPARED: 10/6/94

NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
Health: 3/3 Fire: 0/0 Reactivity: 1/1 Special/Personal Protection: ALK/B

DOT: Sodium hydroxide solution, Class 8, UN1824, PGI

SECTION 2

HAZARDOUS COMPONENTS	CAS #	OSHA-PEL	ACGIH-TLV	% BY WT.
Sodium hydroxide	1310-73-2	2 mg/M ³ (ceiling)	2 mg/M ³ (ceiling)	2 max.
2-Butoxyethanol *	111-76-2	25 ppm (skin)	25 ppm (skin)	4
Sodium metasilicate	6834-92-0	None Est.**	None Est.**	5 max.
Sodium phosphate - eye irritant	7758-29-4	None Est.	None Est.	5 max.
Detergent mixture - eye irritant	No CAS#	None Est.	None Est.	5 max.
Sodium dodecylbenzene sulfonate	25155-30-0	None Est.	None Est.	5 max.

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- * SARA Title III Section 313 (40 CFR 372) reportable as Glycol Ether category.
- ** Supplier recommendation 2 mg/M³ as respirable particulates.

Product is a water solution of the above ingredients.

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: As water	SPECIFIC GRAVITY: 1.085 ± 0.005
VAPOR PRESSURE: As water	PERCENT VOLATILE: 85 (approx.)
VAPOR DENSITY (air = 1): As water	EVAPORATION RATE: As water
SOLUBILITY IN WATER: Complete	pH: 14 ± 0.5

APPEARANCE AND ODOR: Clear light yellow liquid; mild glycol ether odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: As appropriate for surrounding fire (product will not burn).
SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.
UNUSUAL FIRE AND EXPLOSION HAZARDS: As any strong alkaline material: in water solution, can react with aluminum, zinc or other soft metals, generating hydrogen. This gas is flammable and/or explosive in the presence of an ignition source. Avoid prolonged wetting or soaking of soft metals; brief, incidental contact such as overspray is not expected to present a hazard.

SECTION 5: REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None
INCOMPATIBILITY: Do not mix with acid solutions; neutralizes active ingredients.
HAZARDOUS DECOMPOSITION PRODUCTS: None

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SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS AND SYMPTOMS OF EXPOSURE: **ACUTE:** Eyes: As any strongly alkaline liquid, may cause eye burns, possible permanent damage, even blindness. Skin: Prolonged contact with concentrated liquid may cause burns which are not immediately painful or visible. Glycol ether component can be absorbed through skin; harmful amounts not expected in normal use. Inhalation of vapors or mists may cause nose and respiratory irritation; possible tissue damage; possible systemic effects such as headache, nausea or dizziness. Ingestion: Nausea, vomiting, diarrhea; may cause burns to mucous membranes of mouth, throat and digestive tract.

CHRONIC EFFECTS: Dermatitis; possible respiratory effects from excessive inhalation of mists. 2-Butoxyethanol is readily absorbed through the skin; frequent or widespread contact may absorb harmful amounts. Repeated overexposure may cause damage to liver, kidney and red blood cells.

CARCINOGENS: None under OSHA, IARC or NTP.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory or skin disorders.

EMERGENCY AND FIRST AID PROCEDURES: Eyes: immediately flush with plenty of water for at least 15 minutes while holding eyelids open to ensure complete rinsing. Remove contact lenses if worn. Get immediate medical attention. Skin: immediately flush with water for 15 minutes while removing all contaminated clothing and shoes. Continue rinsing until "slippery" feeling is gone. Get prompt medical attention if irritation or burns develop. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention if irritation persists. Ingestion: **DO NOT INDUCE VOMITING.** Give a glass of water or milk to dilute. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES: SMALL SPILLS: Flush down drain with water or mop up.

LARGE SPILLS: Cleanup personnel should wear appropriate protective equipment. Dike to prevent runoff. Reclaim as much as possible. Absorb remainder with inert material and place in suitable containers for disposal. Flush residue with large amounts of water.

Releases of some glycol ethers may be CERCLA reportable.

WASTE DISPOSAL METHOD: Trained and properly equipped personnel may dilute and neutralize waste very carefully with dilute acid in accordance with Federal, State and local regulations. If disposed of as received, may be regulated as a "characteristic" hazardous waste due to pH.

HANDLING AND STORING: DANGER: Alkaline liquid. Do not get in eyes, on skin or clothing, or breathe mist or vapors. Store only in original container in a cool, dry, well-ventilated area. Keep container closed when not in use. Keep from freezing.

OTHER PRECAUTIONS: Do not reuse container. Since empty containers may retain product residue, follow MSDS/label precautions even after container is emptied. Contact with certain food sugars can release hazardous amounts of carbon monoxide gas in enclosed vessels. Follow appropriate confined space entry procedures when cleaning enclosed vessels. Read and follow label directions.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: Not normally required. Organic vapor respirator with dust / mist filter as needed if ventilation is inadequate to maintain mist or vapors below exposure limits.

VENTILATION: General mechanical and/or local exhaust as needed in confined areas or if mist or vapor in air causes irritation or exceeds recommended exposure limits.

GLOVES: Rubber or plastic as needed to avoid prolonged contact.

EYE PROTECTION: Chemical safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing, rubber boots and other equipment as needed to prevent prolonged contact with skin, eyes and clothing. Suitable facilities for quick drenching or flushing of the eyes and body should be provided within the work area for immediate emergency use.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Health and safety information presented on this form is generally applicable at recommended dilutions, varying only in degree.

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.