STAPLES CONTRACT & COMMERCIAL, INC.
500 Staples Drive
Framingham, MA 01702 USA
Business Phone: 1-888-322-0912
24-HR MEDICAL AND EMERGENCIES: 1-888-322-0912

MSDS #: BPR7500

Hazard Rating	HMIS	NFPA
Health	2	2
Flammability	0	0
Physical Hazards	0	-
Reactivity	-	0
Special	None	None

MATERIAL SAFETY DATA SHEET

Complies with ANSI Z400.1 Format

SECTION 1: PRODUCT IDENTIFICATION

Product: GREASE LIGHTNING™
This MSDS applies to Manufacturer Item Numbers: BPR750001-A
MSDS CODE: BPR7500.0712 Prepared by: Regulatory Specialist, Staples Brand Group, (508) 253-5000

GENERIC DESCRIPTION	DATE ISSUED	SUPERSEDES
Heavy Duty Degreaser	07-01-2012	01-20-2011

SECTION 2: HAZARDS IDENTIFICATION

Emergency overview: Corrosive. May cause severe irritation.

Potential short term health effects:

Routes of exposure: Eyes, skin, inhalation, and ingestion.
Eyes: May cause severe eye irritation.
Skin: May cause skin irritation.
Inhalation: May cause irritation to throat and respiratory tract.
Ingestion: Harmful if swallowed. May cause severe irritation to mouth, throat and stomach.
Target organs: Eyes, skin, and respiratory system.
Chronic effects: This product may be harmful if it is absorbed through the skin. Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms: This product may cause severe irritation to eyes, skin and mucous membranes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	% by Wt.	LC_{50}	LD_{50}(oral)
Ethoxylated surfactant	Trade secret	7-13	Not available	1410 mg/kg, rat
Sodium metasilicate	6834-92-0	1-5	Not available	1280 mg/kg, rat
Tetrasodium EDTA	64-02-8	1-5	Not available	>2.0 g/kg, rat, ip
Potassium hydroxide	1310-58-3	0.5-1.5	Not available	12300 mg/kg, rat

Balance is water and similar non-hazardous ingredients.

SECTION 4: FIRST AID MEASURES

Emergency First Aid Procedures:

Eyes: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation occurs and persists, seek medical advice.
Skin: Flush immediately with plenty of water for at least 15 minutes. If irritation occurs and persists, seek prompt medical advice.
Inhalation: If symptoms develop, move victim to fresh air and seek medical advice.
Ingestion: Drink large amounts of water and obtain medical attention. Do not induce vomiting and do not give anything by mouth to an unconscious or convulsing person.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None **Flammable properties:** Not flammable by WHMIS/OSHA criteria.
Extinguishing Media: Use standard fire fighting measures to extinguish fires involving this material (water spray, dry chemicals or foam). **Special Fire Fighting Procedures:** Firefighters should wear full protective clothing including self contained breathing apparatus. **Unusual Fire and Explosion Hazards:** May include but are not limited to: oxides of carbon and oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment and Clean up: Floor may become slippery. Stop leak if you can do so without risk. Small spills may be absorbed with non-reactive absorbent. Rinse area with water. Recover liquid with wet mop or vacuum. Keep spill out of sewers and waterways. Follow good industrial hygiene practices. Wash thoroughly after handling.

SECTION 7: HANDLING AND STORAGE

Avoid contact with eyes and skin. Use only with adequate ventilation. Wash thoroughly after handling. Follow good industrial hygiene practices. Do not eat or drink while handling. Store in original containers away from incompatible materials. Keep out of reach of children.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Ingredient	ACGIH-TLV	OSHA-PEL
Ethoxylated surfactant	Not available	Not available
Potassium hydroxide #1310-58-3	2 mg/m^3	2 mg/m^3
Sodium metasilicate #6834-92-0	Not available	Not available
Tetrasodium EDTA #64-02-8	Not available	Not available

Engineering Controls: General ventilation normally adequate.
Respiratory Protection: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Protective Gloves: Use chemical resistant gloves including neoprene, rubber or vinyl.
Eye Protection: Use splash proof, chemical- resistant goggles.
Other Protective Measures: Use good personal hygiene practices. Wash hands after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Clear, green liquid/Pleasant odor	**Specific Gravity:** 1.04
Odor threshold: Not available	**Vapor Pressure:** Not available
pH (Conc.): 12.0-14.0 pH (Diluted 1:64): 11.0-13.0	**Vapor Density:** Not available
Boiling Point: >212^{0}F	**Freezing Point:** Not available
Solubility in Water: Soluble	**Evaporation Rate:** Not available
V.O.C. Content (by weight): <0.5% (<5 g/L)	**Coefficient of water/oil distribution:** Not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to Avoid: Do not mix with other chemicals.
Incompatibility: Acids and oxidizers.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: May include and are not limited to: oxides of carbon and oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects of acute exposure:
Routes of exposure: Eyes, skin, inhalation, and ingestion.
Eyes: May cause severe eye irritation.
Skin: May cause skin irritation.
Inhalation: May cause irritation to throat and respiratory tract.
Ingestion: Harmful if swallowed. May cause severe irritation to mouth, throat and stomach.
Sensitization: Non-hazardous by WHMIS/OSHA criteria.
Chronic effects: Non-hazardous by WHMIS/OSHA criteria.
Mutagencity: Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria
Reproductive effects: Non-hazardous by WHMIS/OSHA criteria.
Teratogenicty: Non-hazardous by WHMIS/OSHA criteria.
Name of Toxicologically Synergistic Products: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity – Acute Toxicity Data:

Freshwater Fish

Potassium hydroxide #1310-58-3 — 24 Hr TLm Mosquito fish: 800 ppm

Water Flea

Tetrasodium EDTA #64-02-8 — 24 Hr LC_{50} Daphnia magna: 625,000 ug/L

Persistence/degradability: Not available
Bioaccumulation/accumulation: Not available
Mobility in environmental media: Not available
Environmental effects: Not available
Aquatic toxicity: Not available
Partition coefficient: Not available
Chemical fate information: Not available
Other adverse effects: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Information: Dispose of in compliance with all applicable regulations.

SECTION 14: TRANSPORT INFORMATION

24-Hr Emergency Phone: 1-888-322-0912
Shipping Name: Compound, Cleaning Liquid
U.S. DOT: Not regulated as dangerous goods.
CANADA TDG: Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

CANADIAN FEDERAL REGULATIONS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Ingredient Disclosure List:

Potassium hydroxide #1310-58-3	1.0%
Sodium metasilicate #6834-92-0	1.0%
Tetrasodium EDTA #64-02-8	1.0%

WHMIS Classification: Class E – Corrosive Material

WHMIS Labeling:

US FEDERAL REGULATIONS
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Ingredient	CAS#	State Right-to-Know	CERCLA/SARA Sect. 302 RQ(lbs)	SARA EHS Sect. 302 TPQ(lbs)	CERCLA RQ(lbs)
Potassium hydroxide	1310-58-3	NJ, NY, PA	1,000	N/A	N/A

N/A= Not Applicable

SARA 311/312 Hazard Categories:
Immediate/Acute: Yes Delayed/Chronic: No Fire: No
Pressure: No Reactivity: No

SARA 311/312 Hazard Categories: Yes

Inventories	On Inventory (yes/no)*
Canada's Domestic Substances List (DSL)	YES
Canada's Non-Domestic Substances List (NDSL)	NO
United States' Toxic Substances Control Act (TSCA)	YES

*A "Yes" indicates that all components of this product comply with the inventory requirements.

SECTION 16: OTHER INFORMATION

This product meets NSF Nonfood Registration Guidelines for use in non-processing areas. When used on equipment that will be returned to a food processing area, the product must be completely washed off and rinsed with potable water before returning to the processing area. (NSF Registration No. 140662, Category Code C1)

Always follow label directions carefully when using this or any other chemical product. If information about this product is required, please contact Staples at 1-888-322-0912 or visit our website at www.staples.com. Keep MSD Sheets filed and organized in an area accessible to workers according to all applicable regulations.

This MSDS was prepared for the sole purpose of compliance with the U.S. Occupational Safety and Hazard Administration's Hazard Communication Standard and Canada's Controlled Product Regulations and that is its only intended use. All information contained in this MSDS is provided to the best of Staples Contract & Commercial, Inc's knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.