MATERIAL SAFETY DATA SHEET MSDS L-268 REVISION 0

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SUBSTANCE IDENTIFICATION

SUBSTANCE: HEAVY DUTY HAND CLEANSER

TRADE NAMES/SYNONYMS: BORAXO HEAVY DUTY HAND CLEANSER (2:1 FORMULA)

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 88101111

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=2 REACTIVITY=0 HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=2 REACTIVITY=0

This product is labeled in accordance with guidelines set forth in the Food, Drug, and Cosmetic Act. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet may differ from the requirements of the FD & C Act and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HAZARDOUS INGREDIENT INFORMATION

COMPONENT: D-LIMONENE CAS# 5989-27-5

COMPONENT: ALCOHOL ALKOXYLATE BLEND CAS# Mixture

D-Limonene is a category 3 carcinogen (IARC): The agent (mixture or exposure circumstance) is not classifiable as to its carcinogenicity to humans.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: Tan heavy duty liquid cleanser with a pleasant fragrance.

SPECIFIC GRAVITY: 1.002 pH (Neat): 7.0 – 8.0 @ 25°C

VISCOSITY (@ 25°C): 14,000 – 20,000 cps SOLUBILITY: Appreciable

FIRE AND EXPLOSION DATA

FLASH POINT: 172°F (Open Cup); 194°F (Closed Cup) OSHA FLAMMABILITY CLASSIFICATION: Class IIIA

FIRE AND EXPLOSION HAZARD - Product mixture is a combustible liquid. Dangerous fire hazard when exposed to heat or flame.

FIRE FIGHTING MEDIA - Use carbon dioxide, dry chemical or Universal type foam.

FIRE FIGHTING - Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing vapors; keep upwind.

HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

INHALATION: Vapors and mists may cause irritation to the respiratory tract.

SKIN CONTACT: Repeated or prolonged excessive contact may cause irritation.

EYE CONTACT: May cause moderate irritation.

INGESTION: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if rritation persists.

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, acids.

DECOMPOSITION - Thermal decomposition may release toxic and/or hazardous gases, including carbon monoxide, carbon dioxide, or oxides of sulfur.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store away from incompatible substances. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

CAUTION: Material is a combustible liquid. Avoid contact with incompatible substances and excessive heat, sparks or open flame.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Shut off ignition sources. Do not touch spilled material. Stop leak if you can do it without risk. Isolate area until vapors have been dispersed. No smoking, flames or flares in hazard area! Keep unnecessary people away; isolate hazard area and deny entry. Ventilate closed spaces before entering. Take up with sand or other absorbent material and place into containers for later disposal. For larger spills, dike far ahead of spill for later disposal.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide general exhaust ventilation system.

RESPIRATOR - If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other
positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or
other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressuredemand or other positive-pressure mode.

CLOTHING - Protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where splashing of product may occur.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION: Combustible liquid. (Note: Liquids with a flash point of >141°F, in

containers < than 119 gallons, may be classed as Non-Hazardous).

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product.

TSCA: All components of this product are listed or are exempted or excluded

from listing on the U.S. Toxic Substances Control Act (TSCA) chemical

substance inventory.

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MSDS CREATION DATE: 08/25/06

SUPERSEDES: REVISION DATE: REVISION: