



MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

PRODUCT TRADE NAME: Heavy Duty Degreaser

Distributed by: American Research Kemicals, P.O. Box 69-4232, Miami, FL 33169, (305) 651-7715

Emergency Telephone Numbers: 24 Hour Chemical Emergency: (800) 535-5053 (INFOTRAC) (For spill, leak, fire, exposure or accident) 24 Hour Non-Emergency Referrals/Information: (800) 535-5053 (INFOTRAC) Business Hours (EST), All Emergencies: (305) 651-7715 (Regulatory Compliance Department)

II ACTIVE INGREDIENTS - The following ingredients contribute to this products classification as an irritant.

Table with 5 columns: CHEMICAL NAME, CAS NO., HMIS CODE, ACGIH TLV/TWA, OSHA PEL/TWA. Rows include Amphoteric Detergent and Alcohol Ethoxylates.

IIIa PHYSICAL DATA - The following information is relevant to the components listed above as active ingredients (Section II).

Table with 5 columns: CHEMICAL NAME, BOILING POINT (°F), VAPOR PRESSURE (mm Hg), VAPOR DENSITY (Air=1), EVAPORATION RATE (1=Butyl Acetate). Rows include Amphoteric Detergent and Alcohol Ethoxylates.

IIIb PHYSICAL DATA - The following information is for the final product blend.

Table with 6 columns: CHEMICAL NAME, VOC (g/L), SPECIFIC GRAVITY, pH, SOLUBILITY IN WATER, APPEARANCE AND ODOR. Row includes Heavy Duty Degreaser.

IVa FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD): None. FLAMMABLE LIMITS: Not applicable. EXTINGUISHING MEDIA: Suitable for surrounding materials involved in fire. SPECIAL FIRE FIGHTING PROCEDURES: None. UNUSUAL FIRE AND EXPLOSION HAZARDS: Boiling material may spatter.

IVb FIRE AND EXPLOSION HAZARD DATA - NFPA Codes: For materials listed as active ingredients (Section II).

Table with 5 columns: CHEMICAL NAME, HEALTH, FIRE, REACTIVITY, SPECIAL INFO. Rows include Amphoteric Detergent and Alcohol Ethoxylates.

V HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Oral, skin, eyes. CARCINOGEN INFORMATION: Not Listed (OSHA, IARC, NTP). MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: No applicable information found. EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin, and upper respiratory tract. EYE CONTACT: May irritate eyes, producing redness and swelling of the conjunctiva. SKIN CONTACT: Can cause irritant dermatitis. INHALATION: Mists or vapors may be irritating to upper respiratory tract. INGESTION: Swallowing large quantities may cause nausea and vomiting.

EMERGENCY AND FIRST AID PROCEDURES:

- EYE CONTACT:** Immediately flush exposed area with water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Get immediate medical attention. If physician is not immediately available, continue flushing with water. Do not use chemical antidote.
- SKIN CONTACT:** Immediately flush exposed area with water for at least 5 minutes. If irritation persists, get medical attention. Remove contaminated clothing. Launder contaminated clothing before reuse.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.
- INGESTION:** **DO NOT INDUCE VOMITING!** Dilute by giving several glasses of water or milk if immediately available. If person is unconscious, do not give anything by mouth. Get medical attention immediately.
- GENERAL:** Treatment should be based on the sound judgment of the physician and the individual reactions of the patient.

VI REACTIVITY DATA

- STABILITY:** Stable.
- CONDITIONS TO AVOID:** Extreme heat.
- INCOMPATIBILITY (MATERIALS TO AVOID):** Strong acids and strong oxidizing agents.
- HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:** None known.

VII SPILL OR LEAK PROCEDURES

- SPILL, LEAK AND WASTE DISPOSAL PROCEDURES:** Wear appropriate NIOSH/MSHA approved full face piece respirator and other protective safety equipment. Dike area to contain spilled material, and use vacuum truck to pick up material for disposal. After all visible traces have been removed, flush the area with large amounts of water.
- WASTE DISPOSAL METHODS:** Based on Federal EPA solid waste definitions and waste water pretreatment guidelines, this material can be disposed of to sanitary sewer systems in most regions. This material should not be permitted to enter storm sewers or surface waterways. Consult appropriate federal, state, and local regulatory agencies to ascertain proper disposal procedures.

VIII SPECIAL PROTECTION INFORMATION

- RESPIRATORY PROTECTION:** NIOSH/MSHA approved respiratory protection required in the absence of good ventilation and proper environmental control. If product mist is present, wear suitable protection to avoid irritant affect to lungs and upper respiratory tract. Respiratory protection program must be in accordance with 29 CFR 1910.134 (see your safety equipment supplier).
- VENTILATION:** Sufficient to maintain airborne concentrations as low as possible.
- PROTECTIVE CLOTHING:** Wear protective clothing and rubber boots to prevent skin contact.
- PROTECTIVE GLOVES:** Natural rubber, or PVC.
- EYE PROTECTION:** Close fitting chemical safety goggles. Do not wear contact lenses because they may contribute to the severity of an eye injury.
- OTHER PROTECTIVE EQUIPMENT:** Safety shower and eyewash. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.133 and 29 CFR 1910.132.

IX SPECIAL PRECAUTIONS

- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Wear appropriate safety equipment and clothing. Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist. Store in a cool, dry, well-ventilated place. Separate from acids and organic peroxides.
- Never touch eyes or face with hands or gloves that may be contaminated with this product.
- Keep container tightly closed when not dispensing product. Use care around spilled material because it will be slippery. Treat empty containers as if they were full.
- OTHER PRECAUTIONS:** Do not get in eyes, on skin or on clothing. Can cause irritation. Do not breathe mist. Do not take internally. Wash thoroughly after handling. Do not eat, drink, or smoke in work areas.

DISCLAIMER: The information contained on the Material Safety Data Sheet has been compiled from data considered accurate. This data is believed to be reliable, but it must be pointed out that values for certain properties are known to vary from source to source. American Research Chemicals expressly disclaims any warranty express or implied as well as any liability for any injury or loss arising from the use of this information or the materials described. This data is not to be construed as absolutely complete since additional data may be desirable when particular conditions or circumstances exist. It is the responsibility of the user to determine the best precautions necessary for the safe handling and use of this product for his unique application. This data relates only to the specific material designated and is not to be used in combination with any other material. Many federal and state regulations pertain directly or indirectly to the product's end use and disposal of containers and unused material. It is the purchaser's responsibility to familiarize himself with all applicable regulations.