

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: #2 Diesel Oil Standard

AR2868, AR2869, AR2870, AR2871, AR2873, AR2877, AR2878, AR2879 AR2875, AR2865, AR2866, AR2876, AR2867, AR2877, AR2960, AR2821, AR2961, AR2822, AR2962, AR2823, AR2963, AR2824, AR2964, AR2965, AR2825, AR2826, AR2827, AR2828, AR2829, AR3119, DMR1414, AR330

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	%W	CHEMICAL NAMES
64742-47-8	100	Distillates (petroleum), hydrotreated light

3. HAZARD IDENTIFICATION

VARIABILITY AMONG INDIVIDUALS

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists of fumes should be minimized.

EFFECTS OF OVEREXPOSURE (signs and symptoms of exposure)

High vapor concentrations (greater than approximately 700 ppm, attainable at elevated temperature well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE

Petroleum Solvents/Petroleum Hydrocarbons – Skin contact may aggravate an existing dermatitis.

4. FIRST AID MEASURES

EYES: If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

INHALATION: If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

SKIN: In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INGESTION: if ingested, DO NOT induce vomiting; call a physician immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: 105 C (221 F) ASTM D 93, Pensky Martens Closed Cup

AUGO-IGNITION TEMPERATURE

Approximately 211 C (412 F) ASTM E 659

Note: The auto-ignition temperature of this product is relatively low and is reached during laboratory distillation by ASTM Method D 86. Therefore, if the procedure is interrupted, the distillation flask must be cooled before the contents are exposed to air.

Flammable Limits: Lower: 1.6 % Upper: 10.2 %

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES: Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Associations "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991).

Use water spray, dry chemical, foam, or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak of spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposure. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

6. ACCIDENTAL RELEASE MEASURES

CLEAN WATER ACT/OIL POLLUTION ACT: This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges of spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802)

SMALL/LARGE SPILL: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep products out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

7. HANDLING AND STORAGE

HANDLING: Use product with caution around heat, sparks, pilot lights, static electricity and open flame.

“EMPTY” CONTAINER WARNING: “Empty” containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to refill or clean containers since residue is difficult to remove. “Empty” drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

For work on tanks refer to OSHA regulation ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT FOR TOTAL PRODUCT: 143 ppm (1200 mg/m³) based on total hydrocarbon for an 8 hour workday.

VENTILATION: Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking or use of flame or other ignition sources.

RESPIRATORY PROTECTION: Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

HAND PROTECTION: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE AND FACE PROTECTION: Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contamination regular clothing, which could result in prolonged or repeated skin contact.

PERSONAL HYGIENE: Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

WORK PRACTICES/ENGINEERING CONTROLS: To prevent fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts, 02269.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clean water-white liquid, mild mineral spirits odor

BOILING RANGE: 249-268 C (480-514 F)

FREEZE-MELT POINT: Less than -18 C

VAPOR PRESSURE: Less than .01 mmHG (ASTM D2879)

VAPOR DENSITY: 6.3 (Air = 1)

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: .81

pH: Neutral

PERCENT VOLATILES: 100 @ 1 atm. and 25 C

EVAPORATION RATE: Less than 0.01

VISCOSITY: 3.46 cSt @15 C ADTM D 445

10. STABILITY AND REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc, as this presents a serious explosion hazard.

11. TOXICOLOGICAL INFORMATION

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

12. ECOLOGICAL INFORMATION

Do not discharge this product into public waters or waterways unless authorized by a National Pollution Discharge Elimination System (NPDES) permit issued by the Environmental Protection Agency (EPA).

13. DISPOSAL CONSIDERATION

Options for disposal of this product may depend on the conditions under which it was used. To determine the proper method of disposal, refer to RCRA (40 DFR 261), as well as federal, EPA, state and local regulations.

Please refer to sections 5, 6 and 15 for additional information.

14. TRANSPORTATION INFORMATION

USA DOT: Not regulated

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)

No toxic chemical is present greater than 1% or 0.1 % (carcinogen).

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)

EPA Hazardous Classification Code: Not Applicable.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product does not contain polychlorinated biphenyls (PCB's)

All components of this product are listed on the US TSCE inventory.

CANADIAN REGULATIONS

WHIMS: B3, D2B

16. OTHER INFORMATION

NFPA HAZARD IDENTIFICATION

Health	Flammability	Reactivity
1	1	0

SUPPLEMENTAL INFORMATION

The data and information as stated was furnished by the manufacturer/vendor &/or supplier of this product. Alpha Resources, Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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Prepared by: Scot Burns