

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Diesel Standard (Diesel Fuel Oil #2)**

AR2075, AR330, AR3025, AR3029, DMR1414

This product is intended for laboratory use.

Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: DANGER

SECTION 2— HAZARDS IDENTIFICATION**Physical Hazard:** Combustible liquid (Category 4)**Health Hazard:** Carcinogen (Category 2), Aspiration (Category 1)**Hazard Statements:** Combustible liquid (H227), maybe fatal if swallowed and enters airways (H304), and suspected of causing cancer (H351).**Precautionary Statements:** Obtain special instructions before use (P201), keep away from heat, sparks, open flames, hot surfaces-No smoking (P210), wear protective gloves, protective clothing, and eye protection (P280), if swallowed: immediately call a doctor (P301+P310), Do NOT induce vomiting (P331), if exposed or concerned: get medical attention (P308+P313), store in well-ventilated place and keep cool (P403+P235), store locked up (P405), and dispose of contents and container with local regulations (P501).**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS****Hazardous substance required for disclosure.**

Component	CAS #	Common %
Diesel Fuel Oil Number 2	68476-34-6	>99

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provision of paragraph (i).

SECTION 4— FIRST AID MEASURES

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If breathing is difficult qualified personnel may administer Oxygen. If not breathing give artificial respiration when qualified. When providing assistance avoid exposure to yourself and others. Seek medical attention

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

If on skin: Wash with plenty of water. (P302+P352). If persists seek medical attention and bring label.

If swallowed: Aspiration hazard: do not induce vomiting. If vomiting begins, keep head lower than hips to prevent aspiration. Get immediate medical attention or give artificial respiration if not breathing. Note: if swallowed material may be aspirated into the lungs and cause chemical pneumonitis. Treat accordingly.

Most important symptoms: may cause eye, skin, and respiratory irritation.

SECTION 5 — FIRE FIGHTING MEASURES

Fire and Explosion Hazards: This material has a Moderate fire hazard. Vapor of this product is heavier than air. Vapor/air mixtures are explosive above their respective flash point. Vapors or gases could ignite at distant ignition sources and flash back.

Appropriate Extinguishing Media: Use regular dry chemical, carbon dioxide, water, or regular foam.

Inappropriate Extinguishing Media: N/A

Specific Hazards Arising from Chemical: Combustible liquid.

Fire Fighting Instructions: Evacuate area. Avoid any inhalation of material or combustion byproducts. Protect drinking water, sewers, and streams from any possibility of runoff from fire. Firefighters should use standard protective equipment including self-contained breathing apparatus. Water spray can be a good way to cool fire exposed surfaces and protect personnel.

Hazardous Combustion Products: Oxides of Carbon, smoke, fumes, and incomplete combustion products.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use suitable personal protective equipment when cleaning up any spills.

Clean-up Method: Avoid heat, flames, sparks and any other source of ignition. Remove any sources of ignition. Stop leak if able to do so without any risk. Reduce vapors with water spray. Use a non-combustible material to absorb small spills. Collect the material and dispose of according to local, regional, state, and federal regulations.

Environmental Precautions: When a large spill is being contained, dike far ahead of liquid spill for later recovery and removal. Prevent entrance into sewers, confined areas, basements, and waterways.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid any contact with bare skin. Keep away from incompatible materials.

Storage: This product should be stored in a cool, dry place and kept sealed (P233) when not in use. Also, this material is subject to storage regulations where grounding and bonding required. Store in a well ventilated area. Don't store in an open or container without a proper label. Keep separate from incompatible substances.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limit Values:

ACGIH (TWA): 100mg/m³ (total hydrocarbons, inhalable fraction and vapor)

Skin-potential significant contribution to overall exposure by the cutaneous route.

Engineering Controls: Proper ventilation must be available to be certain exposure limits are not exceeded.

Personal Protection: Wear a NIOSH applicable certified respirator to limit exposure to materials.

Hand Protection: Glove suitability will differ depending on the end use of product. Chemical resistant gloves can provide an excellent barrier of protection.

Eye protection: Safety glasses with side shields are necessary if splashing is possible. Eye wash station should be in close proximity to work area.

Skin and Body Protection: Chemical and oil resistant clothing are recommended for extended periods of contact.

Hygiene: Wash hands and areas of possible exposure after handling material especially before eating, drinking, and smoking. The work clothing should also be washed regularly to remove any contaminants. Dispose of contaminated clothing that can't be deemed safe.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health, and environmental considerations only and may not represent the products specifications. Contact supplier for additional information.

Colorless to brown liquid	Petroleum Odor	Odor Threshold: 0.11ppm
Melting Point: -18°C	Relative Density:~850kg/m ³ @15 °C	Vapor Density: >1
Vapor pressure: 2.6mmHg @20°C	Soluble: Insoluble in water	Boiling Point: 171-360°C
Flash point: 73.3 °C	Auto-Ignition Temperature: >240 °C	
Explosive limits, LEL (vol.%): >0.6%	Explosive limits, UEL (vol.%): >6.0%	

SECTION 10 — STABILITY AND REACTIVITY

Stable material at normal laboratory conditions.

Avoid: Heat, flames, sparks, and any other ignition sources. Containers could rupture or explode if heat is extreme. This material should be kept away from water supplies and sewers.

Incompatible: Oxidizing materials

Hazardous Decomposition: Oxides of Carbon: Oxides of Sulfur **Hazardous Polymerization:** None

SECTION 11 — TOXICOLOGICAL INFORMATION

Route of Exposure: Inhalation and skin

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Dizziness, nausea, coughing, respiratory tract irritation, skin irritation, central nervous system depression, aspiration hazard.

Potential Health Effects (Acute, Chronic, and Delayed)

Inhalation: Acute exposure to high levels of vapor may cause central nervous system depression, headache, dizziness, nausea, vomiting, anorexia, incoordination and unconsciousness. Prolonged or repeated exposure may cause irritation.

Skin Contact: Acute exposure may cause redness. In animal tests, fuel oils caused moderate irritation, erythema, and edema. Chronic skin exposure may cause defatting and drying of the skin resulting in irritation and dermatitis.

Eye Contact: Acute exposure of liquid or vapor may cause irritation. In animal tests, exposure to fuel oils caused mild irritation.

Ingestion: Diesel fuel may cause lung damage if aspirated into the lungs and may be fatal. Symptoms may include coughing, difficulty breathing, cyanosis and pulmonary edema. Acute exposure by ingestion may cause nausea, vomiting, cramping, and symptoms of the central nervous system depression.

Acute toxicity: Not classified.

Rat, oral LD50: 12 g/kg

Skin corrosion/irritation: Not classified.

No data available.

Serious eye damage/eye irritation: Not classified.

Respiratory sensitization: No data available.

Skin sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: Category 2

Listed as a Carcinogen/Potential Carcinogen: Yes

NTP does not list Diesel Fuel Oil No. 2 as a carcinogen.

IARC lists diesel fuels as Group 3, not classifiable, as to their carcinogenicity to humans.

ACGIH lists Diesel Fuel Oil No. 2 as an A3 (confirmed animal carcinogen with unknown relevance to humans.)

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity, Single Exposure: No data available.

Specific Target Organ Toxicity, Repeated Exposure: No data available.

Aspiration Hazard: Category 1.

Kinematic Viscosity: $3.239 \times 10^{-6} \text{m}^2/\text{s}$ (3.239 cSt) at 40 °C

SECTION 12 — ECOLOGICAL INFORMATION

Eco-toxicity Data: Fish toxicity: Fathead minnow (*Pimephales promelas*) LC50: 35mg/L (flow through) 96hr

Mobility in Soil: No data

Bio-accumulative Potential: No data

Persistence and Degradability: No data

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste disposal should be done in compliance with existing federal, state and local environmental regulations. Do not contaminate any streams, lakes, or ponds.

SECTION 14 — TRANSPORT INFORMATION

Not regulated for land/air/sea transport by DOT/TDG/IMDG/IATA

SECTION 15 — REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: Yes

CHRONIC HEALTH: Yes

FIRE: Yes

REACTIVE: No

PRESSURE: No

State Regulations: California Proposition 65: Not listed.

U.S. TSCA Inventory: Diesel Fuel Oil, No. 2-D is listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations: WHMIS Information is not provided for this material

SECTION 16 — OTHER INFORMATION

The data and information as stated was furnished by the manufacturer/vendor/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.
