MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND CONTACT INFORMATION

Product Name: Vacuum Gas Oil Standard

AR3150, AR3151, AR3152, AR3153, AR3154, AR3155, AR3156, AR3157, AR2077, AR2078, DMR1591

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2. COMPOSITION/INFORMATION ON INGREDIENTS

			OSHA	ACGIH
CAS NO.	%W	CHEMICAL NAMES	PEL (mg/m3)	TLV (mg/m3)
64741-57-7	100	Gas Oils, Heavy Vacuum	5 PPM	5 PPM

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS
EYES: Causes irritation.
SKIN: Causes irritation. Prolonged and repeated contact may cause various skin disorders such as dermatitis, folliculitis, oil acne or skin tumors.
INHALATION: May cause irritation to the mucous lining. Avoid breathing in vapors directly.
INGESTION: May cause burning of mouth, nausea and vomiting.
CHRONIC OVEREXPOSURE: Prolonged inhalation may adversely affect respiratory function.
ACUTE OVEREXPOSURE: Harmful if swallowed. May be harmful if inhaled. May be harmful if absorbed through the skin. Causes eye and skin irritation.
MERDICAL CONDITIONS AGGRAVATED: Not available.
CARCINOGENICITY: Not available.

4. FIRST AID MEASURES

EYES: Flush with large amounts of water. If irritation persists, get medical attention
INHALATION: Removed from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If respiratory irritation, dizziness, nausea or unconsciousness occurs, get medical attention.
SKIN: Wash skin with plenty of soap and water. Launder contaminated clothing before reuse.
INGESTION: Do not induce vomiting. Give 1 – 2 glasses of water. Call a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
Flammable
Flash Point: >70 C
Flammable Limits: (% by Volume in Air): Lower: 1 Upper: 5

AUTO-IGNITION TERMERATURE: >500 F

HAZARDOUS COMBUSTION PRODUCTS: Sulfur oxides and hydrogen sulfide, both of which are toxic, may be released upon combustion. Vapor accumulation could flash and/or explode if ignited. A complex mixture of airborne solid, liquid, particulates and gases will evolve when the material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion. Nitrogen oxides, sulfur oxides and metal oxides are also possible products.
EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or CO2. Do not use a direct stream of water. Product will float and can be re-ignited on surface of water.
FIREFIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires. Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter, especially if sprayed into containers of hot, burning liquid.

6. ACCIDENTAL RELEASE MEARURES

SMALL/LARGE SPILL: Absorb utilizing materials such as fire retardant treated sawdust, diatomaceous earth, etc.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Avoid prolonged or repeated handling; wash thoroughly after handing.
STORAGE: Keep container tightly closed. Store is a cool dry place away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Work in well ventilated areas and away from any ignition sources.
RESPIRATORY PROTECTION: Not required during normal use. NIOSH/MSHA respirator if exposure above the PEL or TLV.
SKIN AND HAND PROTECTION: Wear chemical-resistant gloves.
EYE AND FACE PROTECTION: Safety goggles.
OTHER PROTECTIVE EQUIPMENT: Wear suitable protective clothing as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Thick, waxy liquid, dark orange to brown
BOILING POINT: 315 – 595 C
FREEZE-MELT POINT: 12 – 40 C
VAPOR PRESSURE: 6
VAPOR DENSITY: 1
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY: 0.76
pH: N/A
ODOR: Hydrocarbon/petroleum odor
EVAORATION RATE: slow, as only partially soluble

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Heat, sparks, flame, contact with strong oxidizing agents, and build up of static electricity.

HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide, sulfur oxides and/or low molecular weight hydrocarbons and toxic (acidic) gases.
HAZARDOUS POLYMERIZATION: None.

11. TOXICOLOGICAL INFORMATION

Oral LD50 Rags: >5000 mg/kg
Dermal LD50 Rabbits: >5000 mg/kg
Inhalation (aerosol) LC50 Rats: 2.18 mg/L

12. ECOLOGICAL INFORMATION

Material is considered environmentally toxic and damaging on contact to plants, birds and water mammals.
Fish 96-h LC50: 1000 mf/L (measured)
Algae 96-h NOEC: 50% WAF (measured)
Daphnid 48-h LC-50: 10 mg/L (measured)
Daphnid 21-d LLo: 1000 mg/L WAF (measured)

13. DISPOSAL CONSIDERATION

Dispose of gasoline in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

Not regulated.

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS
TSCA STATUS: On toxic Substance Control Inventory
CERCLA Reportable Quantity: None
RCRA Status: Not regulated
SARA TITLE III:
Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazardous Categories: Fire, Acute
Section 313 Toxic Chemicals: None

CANADAIN REGULATIONS
WHMIS: D2A, D2B

16. OTHER INFORMATION

Hazard Index : (0 – 4, 4 = Extreme) (NFPA)

Health: 0 Fire: 2 Reactivity: 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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