1. IDENTIFICATION

Product Identifier  
No.4 Fuel Oil

Synonyms:  
4 Fuel Oil; 4 Oil; Low Sulfur No. 4 Fuel Oil

Intended use of the product:  
Fuel

Contact:  
Global Companies LLC  
Water Mill Center  
800 South St.  
Waltham, MA 02454-9161  
www.globalp.com

Contact Information:  
EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300  
COMPANY CONTACT (business hours): 800-542-0778

2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):

- Combustible Liquid  
  Category 3  
  H226
- Skin Corrosion/Irritation  
  Category 2  
  H316
- Eye Damage/Irritation  
  Category 2B  
  H320
- STOT SE  
  Category 3  
  H336
- Carcinogenicity  
  Category 2  
  H350
- Aquatic Chronic  
  Category 2  
  H401

Labeling Elements

Signal Word (GHS-US):  
Danger

Hazard Statements (GHS-US):

- H226 – Flammable liquid and vapor.
- H316 – Causes Skin irritation.
- H320 – Causes eye irritation.
- H317 – May cause an allergic skin reaction.
- H350 – May cause cancer.
- H336 – May cause drowsiness and dizziness.
- H401 – Toxic to aquatic life.

Precautionary Statements (GHS-US):

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 - Keep container tightly closed.
- P240 – Ground/bond container and receiving equipment.
- P241 – Use explosion-proof electrical/ventilating/lighting equipment pursuant to applicable electrical code.
- P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P280 - Wear protective gloves/protective clothing/eye protection/face
P271 – Use only outdoors or in a well-ventilated area
P284 – Wear respiratory protection
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash skin thoroughly after handling.
P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.
P308+311 - If exposed or concerned: Get medical advice/attention.
P301+310 - If swallowed: Immediately call a poison center/doctor/…
P331 - Do NOT induce vomiting.
P370+P378 – In case of fire use firefighting foam or other appropriate media for Class B fires to extinguish.
P403+235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 – Dispose of contents/container in accordance with local/regional/national/international regulation.
P273 – Avoid release to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information
Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier (CAS#)</th>
<th>% (w/w)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil No. 4</td>
<td>68476-31-3</td>
<td>100</td>
<td>Comb. Liq. 4, H227; Skin Irrit. 2, H316; Eye Irrit. 2B H320 STOT SE 3, H336; Carc.2. H350; Aquatic tox 2, H401</td>
</tr>
</tbody>
</table>

Additional Formulation Information
A complex combination of heavy (high boiling point) petroleum hydrocarbons and is a blend of distillate (such as No. 2 Fuel Oil) and residual fuel oil (such as No. 6 Fuel Oil). The amount of sulfur varies with product specification and does not affect the health and safety properties as outlined in this safety data sheet.

4. FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Route</th>
<th>Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Aspiration Hazard: DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Ingestion may cause gastrointestinal disturbances including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory failure, and death.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention. In case of contact lenses, remove immediately.</td>
</tr>
</tbody>
</table>
Route | Measures
--- | ---
Skin Contact | Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and of the area of the body burned.

**Most Important Symptoms**
Contact with eyes and face may cause irritation. Long-term exposure may cause dermatitis (itching, irritation, pain and swelling).
Inhalation may cause irritation.
Ingestion may cause gastrointestinal disturbance, and CNS effects.

**Immediate Medical Attention and Special Treatment**
For contact with skin or eyes, immediately wash or flush contaminated eyes with gently flowing water. If possible, irrigate each eye continuously with 0.9% saline (NS). If ingested, rinse mouth. Do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

If inhaled, administer oxygen or establish a patent airway if breathing is labored. Suction if necessary. Monitor closely, anticipate seizures. Consider orotracheal or nostracheal intubation of airway control if patient is unconscious or is in severe respiratory distress.

Discard any clothing or shoes contaminated as they may be flammable.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**
Foam, carbon dioxide, dry chemical are most suitable

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, firefighting foam, or Halon. Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other firefighting equipment.

LARGE FIRES: Foam, carbon dioxide, dry chemical. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

**Specific Hazards / Products of Combustion**
Moderate fire hazard when exposed to heat or flame with a very low flash point. Product is flammable and easily ignited when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Combustion may produce smoke, carbon monoxide and other products of incomplete combustion.

**Special Precautions and Protective Equipment for Firefighters**
Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam.

**Fighting Equipment/Instructions**
Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH- approved pressure-demand self-contained breathing apparatus with full face piece and protective clothing.

Refer to Section 9 for fire properties of this chemical including flash point, auto ignition temperature, and explosive limits.
6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY SPCC, SPILL CONTINGENCY or EMERGENCY PLAN.

**Personal Precautions**
Due to high vapor density, flammable / toxic vapors may be present in low lying areas, dikes, pits, drains, or trenches. Vapors may accumulate in low lying areas and reach ignitable concentrations. Ventilate the area. Use of non-sparking tools and intrinsically safe equipment is recommended. Potential for flammable atmosphere should be monitored using a combustible gas indicator positioned downwind of the spill area. Refer to Sections 2 and 7 for further hazard warnings and handling instructions.

Use appropriate personal protective equipment to prevent eye/skin contact and absorption. Use NIOSH approved respiratory protection, if warranted, to prevent exposures above permissible limits. Refer to Section 8. Contaminated clothing should not be near sources of ignition.

**Emergency Measures**
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Consider wind direction. Secure all ignition sources (flame, spark, hot work, hot metal, etc.) from area. Evaluate the direction of product travel, diking sewers, etc. to confirm spill areas. Do not touch or walk-through spilled material. For large spills, isolate initial action distance downwind 1,000 ft. (300 m).

**Environmental Precautions**
Stop the spill to prevent environmental release if it can be done safely. Product is toxic to aquatic life. Take action to isolate environmental receptors including drains, storm sewers and natural water bodies. Keep on impervious surface if at all possible. Use water sparingly to prevent product from spreading. Foam and absorbents may be used to reduce / prevent airborne release.

Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Follow federal, state or local requirements for reporting environmental release where necessary. Refer to Section 15 for further information.

**Containment and Clean-Up Methods**
Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of firefighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with dry earth, sand or other non-combustible, inert oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container with clean, non-sparking tools for reclamation or disposal. Response and cleanup crews must be properly trained and must utilize proper protective equipment. Refer to Section 8 for appropriate protective equipment.

7. HANDLING AND STORAGE

USE ONLY AS A FUEL.
DO NOT SIPHON BY MOUTH.

**Handling Precautions**
Handle as a combustible liquid. Keep away from heat, sparks, and open flame. No smoking. Electrical equipment should be approved for classified area. Bond and ground containers during product transfer pursuant to NFPA 70 and API RP 2003 to reduce the possibility of static-initiated fire or explosion. Follow precautions to prevent static initiated fire.

Use good personal hygiene practices. Use only with protective equipment specified in Section 8. Avoid repeated and/or prolonged skin exposure. Use only outdoors or in well ventilated areas. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure.
Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API RP 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage
Large quantities of fuel oil are stored in tanks or portable containers at an ambient or heated storage temperature. Separate from incompatible chemicals (Refer to Section 10) by distance or secondary containment. Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers that are clearly labeled. Label all secondary containers that this material is transferred into with the chemical name and associated hazard(s). Empty product containers or vessels may contain flammable vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Storage tanks should have a venting system. If stored in small containers, the area should be well ventilated, away from ignition sources and protected from potential damage or vehicular traffic. Post "No Smoking" signs in product storage areas. This storage area should comply with NFPA 30 “Flammable and Combustible Liquid Code” or applicable building code. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 “Cleaning Mobile Tanks in Flammable and Combustible Liquid Service” and API RP 2015 “Safe Entry and Cleaning of Petroleum Storage Tanks”.

Incompatibles
Keep away from strong oxidizers, ignition sources and heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>List</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Oil No. 4</td>
<td>68476-31-3</td>
<td>ACGIH TLV-TWA</td>
<td>100 mg/m3*</td>
</tr>
</tbody>
</table>

*Critical effects; Skin; A3; CNS impairment.

Engineering Controls
Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Intrinsically safe equipment and non-sparking tools shall be used in circumstances where concentrations may exceed lower flammable limits. Grounding and bonding shall be used to prevent accumulation and discharge of static electricity. Emergency shower and eyewash should be provided in proximity to handling areas in the event of exposure to decontaminate.

Personal Protective Equipment

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye / Face</td>
<td>Wear appropriate chemical protective glasses or goggles or face shields to prevent skin and eye contact especially caused from splashing.</td>
</tr>
<tr>
<td>Skin</td>
<td>Wear appropriate personal protective clothing to prevent skin contact. Gloves constructed of nitrile, neoprene or PVC are recommended when handling this material. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations. Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.</td>
</tr>
<tr>
<td>Thermal</td>
<td>Product is stored at ambient temperature. No thermal protection is required except for emergency operations involving actual or potential for fire. Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black, viscous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild characteristic petroleum distillate odor.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>&lt;1 ppm</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>350 to 700 °F (177 to 371 °C)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 131 °F (55 °C) PMCC</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slow, varies with conditions</td>
</tr>
<tr>
<td>Flammability</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt;0.007 psia @ 70 °F</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt;5.0 (air=1)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.876-0.979 @ 60 °F (16 °C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water; miscible with other petroleum solvents.</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>(N-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>&gt;505 °F (263 °C)</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>When heated it emits acrid smoke and irritating vapors.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>&gt;4 cSt</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>Not available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability
This is a stable material that is combustible liquid (OSHA/GHS hazard category 4). Stable during transport.

Reactivity
Material is not self-reacting. Flammable concentrations may be present in air. Compound can react with oxidizing materials.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Incompatibility
Keep away from strong oxidizers such as nitric and sulfuric acids.

Conditions to Avoid
Avoid high temperatures, open flames, sparks, static electricity, welding, smoking and other ignition sources.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Not available.

Skin Corrosion/Irritation: Prolonged and repeated contact may cause skin irritation leading to dermatitis. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.
SAFETY DATA SHEET  
No. 4 Fuel Oil

Eye Irritation: Causes eye irritation
Respiratory or Skin Sensitization: Not classified  
Germ Cell Mutagenicity: Not classified  
Teratogenicity: Not available  
Carcinogenicity: Carcinogenic: OSHA: NO, IARC: Group 2B, NTP: NO, ACGIH: NOIC:A3, NIOSH: NO 
IARC: Group 2B possibly carcinogenic to humans  
ACGIH: A3 – Confirmed animal carcinogen with unknown relevance to humans 
This material contains poly-nuclear aromatic hydrocarbons (PNAs), some of which are animal carcinogens. Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal’s skin with soap and water between applications reduced tumor formation. The presence of carcinogenic PNAs indicates that precautions should be taken to minimize repeated and prolonged inhalation of fumes or mists. 
Byproducts of combustion are similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates (byproduct of combustion of this material) carcinogenic to humans (Group 1) and NIOSH regards diesel fuel exhaust particulate as a potential occupational carcinogen.  
Reproductive Toxicity: Not classified  
Specific Target Organ Toxicity (Repeated Exposure): Not classified  
Specific Target Organ Toxicity (Single Exposure): Inhalation exposure may cause drowsiness or dizziness by inhalation exposure. 
Aspiration Hazard: Not classified 
Potential Health Effects: Vapor irritating to skin, eyes, nose, and throat. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur. 
WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death. 

12. ECOLOGICAL INFORMATION 

Toxicity: 
This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. 
Data for Component: No. 4 Fuel (68476-31-3) 
96 hr LC50 Pimephales promelas 35mg/L  
Persistence and Degradation: This material is not expected to be readily biodegradable. 
Bioaccumulative Potential: Not available 
Mobility in Soil: Not available 
Other Adverse Effects: None known 
Other Information: Avoid release to the environment. 

13. DISPOSAL CONSIDERATIONS 
Consult federal, state and local waste regulations to determine appropriate disposal options. May be considered a hazardous waste if disposed. Direct solid waste (landfill) or incineration at a solid waste facility is not permissible. Do not discharge to sanitary or storm sewer. Personnel handling waste containers should follow precautions provided in this document. 
Shipping containers must be DOT authorized packages. Follow licensure and regulations for transport of hazardous material and hazardous waste as applicable.
14. TRANSPORT INFORMATION

**US DOT**
- UN Identification Number: NA 1993
- Proper Shipping Name: Fuel oil (No. 4)
- Hazard Class and Packing Group: 3, PGIII
- Shipping Label: Combustible liquid
- Placard / Bulk Package: Combustible liquid, 1993
- Emergency Response Guidebook Guide Number: 128

**IATA Information**
- UN Identification Number: UN 1993
- Proper Shipping Name: Fuel oil (No. 4)
- Hazard Class and Packing Group: 3, PGIII
- ICAO Label: 3
- Packing Instructions Cargo: 310
- Max Quantity Per Package Cargo: 220L
- Packing Instructions Passenger: 309Y
- Max Quantity per Package: 60L

**ICAO**
- UN Identification Number: UN 1993
- Shipping Name / Description: Fuel oil (No. 4)
- Hazard Class and Packing Group: 3, PG III
- IMDG Label: 3

**IMDG**
- UN Identification Number: UN 1993
- Shipping Name / Description: Fuel oil (No. 4)
- Hazard Class and Packing Group: 3, PGIII
- IMDG Label: 3
- EmS Number: F-E-S-E
- Marine Pollutant: Yes

15. REGULATORY INFORMATION

**U.S. Federal, State, and Local Regulatory Information**
Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

**OSHA Hazard Communication Standard**
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning And Community Right-to-Know Act of 1986) Sections 311 and 312**
- Immediate (Acute) Health Hazard: Yes
- Delayed (Chronic) Health Hazard: Yes
- Fire Hazard: Yes
- Reactive Hazard: No
- Sudden Release of Pressure Hazard: No
Clean Water Act (Oil Spills)
Any spill or release of this product to “navigable waters” (Essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA Section 103 and SARA Section 304 (Release to the Environment)
The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts this material. This product does not contain any chemicals subject to the reporting requirements of CERCLA Section 103 or SARA 304.

SARA Section 313- Supplier Notification
This product does not contain any chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

EPA Notification (Oil Spills)
If the there is a discharge of more than 1,000-gallons of oil into or upon navigable waters of the United States, or if it is the second spill event of 42 gallons or more of oil into water within a twelve (12) month period, a written report must be submitted to the Regional Administrator of the EPA within sixty days of the event.

Pennsylvania Right to Know Hazardous Substance list:
The following product components are cited in the Pennsylvania Special Hazardous Substance List, and are present at levels which require reporting.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 4 Fuel Oil</td>
<td>68476-31-3</td>
<td>100%</td>
</tr>
</tbody>
</table>

New Jersey Right to Know Hazardous Substance list:
The following product components are cited in the New Jersey Right to Know Hazardous Substance List, and are present at levels which require reporting.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 4 Fuel Oil</td>
<td>68476-31-3</td>
<td>100%</td>
</tr>
</tbody>
</table>

California Proposition 65 WARNING:
This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

U.S. Toxic Substances Control Act
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CEPA - Domestic Substances List (DSL)
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Canadian Regulatory Information (WHMIS)
Class B3 – Combustible Liquid
Class D2A – Materials causing other toxic effects. (Very Toxic)

16. OTHER INFORMATION

Version 4
Issue Date May 20, 2016
Prior Issue Date May 3, 2015

Description of Revisions
Revised to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

Abbreviations
SAFETY DATA SHEET
No. 4 Fuel Oil

°F Degrees Fahrenheit (temperature)
< Less than
= Equal to
> Greater than
AP Approximately
C Centigrade (temperature)
kg Kilogram
L Liter
mg Milligrams
mL Milliliter
mm² Square millimeters
mmHg Millimeters of mercury (pressure)
N/A Not applicable
N/D Not determined
ppm Parts per million
sec Second
ug Micrograms

Acronyms
ACGIH American Conference of Governmental Industrial Hygienists
AIHA American Industrial Hygiene Association
AL Action Level
ANSI American National Standards Institute
API American Petroleum Institute
CAS Chemical Abstract Service
CERCLA Comprehensive Emergency Response, Compensation, and Liability Act
DOT U.S. Department of Transportation
EC50 Ecological concentration 50%
EPA U.S. Environmental Protection Agency
ERPG Emergency Response Planning Guideline
GHS Global Harmonized System
HMIS Hazardous Materials Information System
IARC International Agency for Research On Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
Koc Soil Organic Carbon
LC50 Lethal concentration 50%
LD50 Lethal dose 50%
MSHA Mine Safety and Health Administration
NFPA National Fire Protection Association
NIOSH National Institute of Occupational Safety and Health
NOIC Notice of Intended Change
NTP National Toxicology Program
OPA Oil Pollution Act of 1990
OSHA U.S. Occupational Safety & Health Administration
PEL Permissible Exposure Limit (OSHA)
REL Recommended Exposure Limit (NIOSH)
RVP Reid Vapor Pressure
SARA Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA Self Contained Breathing Apparatus
SPCC Spill Prevention, Control, and Countermeasures
STEL Short Term Exposure Limit (generally 15 minutes)
TLV Threshold Limit Value (ACGIH)
TSCA Toxic Substances Control Act
TWA Time Weighted Average (8 hr.)
UN United Nations
UNECE United Nations Economic Commission for Europe
WEEL Workplace Environmental Exposure Level (AIHA)
WHMIS Canadian Workplace Hazardous Materials Information System

Disclaimer of Expressed and Implied Warranties
Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

** End of Safety Data Sheet **