

## SAFETY DATA SHEET (SDS)

*This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. Please determine your responsibilities under your local regulations.*

### 1. Identification of the substance or mixture and of the supplier

#### Identification

**Product Name:** Diesel Race Fuel

#### Additional identification

**Chemical name:** Mixture  
**CAS-NO.:** Not applicable.

#### Recommended use and restriction on use

**Recommended use:** Competition Use.  
**Restrictions on use:** Off Road Use Only.

#### Details of the supplier of the safety data sheet

##### Supplier

**Company name:** Opti-Lube  
**Address:** 1195 S 1680 W  
Orem, UT 84058  
USA  
**Telephone:** 801-491-3717

#### Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL (+1) 801-850-8553, OR WITHIN THE USA 801 491 3717

### 2. Hazard(s) identification

#### Hazard Classification of the substance or mixture

##### Physical Hazards

Flammable liquids Category 4

##### Health Hazards

Acute toxicity (Oral) Category 4  
Acute toxicity (Dermal) Category 4  
Acute toxicity (Inhalation—dust and mist) Category 4  
Specific target organ toxicity, single exposure Category 3 narcotic effects  
Specific target organ toxicity, Repeated exposure Category 2 (Bone marrow, liver, spleen)  
Aspiration hazard Category 2

##### Unknown toxicity

Acute toxicity, Inhalation, vapor 99.9%

#### Label Elements:



<b>Signal Word:</b>	Danger
<b>Hazard Statement:</b>	Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. May cause drowsiness or dizziness. May cause damage to organs (bone marrow, liver, spleen) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement:</b>	
<b>Prevention:</b>	Keep away from heat/sparks/open flames/hot surfaces.—No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist or vapor. Use only outdoors or in a well ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
<b>Response:</b>	In case of fire: Use appropriate media to extinguish. IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: get medical advice/attention. IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Remove contaminated clothing and wash before reuse. Collect spillage. In case of fire: Use CO <sub>2</sub> , dry chemical or foam extinction. Collect spillage.
<b>Storage:</b>	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
<b>Disposal:</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification:</b>	Static accumulating flammable liquids.
<b>Supplemental information</b>	Sparks may ignite liquid and vapor. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

<b>3. Composition/Information on Ingredients</b>
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**General Information**

Chemical Name:	CAS-NO.	Percent by Weight
2-Ethylhexyl nitrate	27247-96-7	2.5 - 5%
Distillates (Petroleum), Full-Range Straight-Run Middle	68814-87-9	74 - 92.5%
Kerosine (Petroleum)	8008-20-6	9.25 - 18.5%
Nonane	111-84-2	0 - 4.625%

\*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are percent by volume.

#### 4. First-aid measures

**Description of first aid measures**

<b>Ingestion:</b>	Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs keeps head low so that stomach content doesn't get into the lungs. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER/doctor/physician if you feel unwell. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
<b>Skin Contact:</b>	Immediately remove all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Most important symptoms/effects, acute and delayed</b>	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Jaundice. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects. See section 11.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide General supportive measures and treat symptomatically. Thermal burns: flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to the hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Immediately remove all contaminated clothing. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Move containers from fire area if you can do so without risk.
<b>Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media:</b>	Water fog, CO2, Dry chemical or foam.
<b>Unsuitable extinguishing media:</b>	Do not use water.
<b>Specific hazard arising from the chemical:</b>	Vapors may form explosive mixtures with air. May ignite on surfaces at temperatures above auto-ignition temperature. Vapor in the headspace of tanks and containers may ignite and explode at temperatures exceeding auto-ignition temperature, where vapor concentrations are within the flammability range. Vapors may travel considerable distance to a source of

ignition and flash back. Hazardous combustion products may include: a complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds. Carbon monoxide may be evolved if incomplete combustion occurs. Container may rupture on heating. See section 10 for additional information.

**Special protective equipment and precautions for firefighters**

**Special fire fighting Procedures:** In case of fire and/or explosion do not breath fumes. Move containers from fire if you can do so without risk. Material may explode under confinement and high temperature. The alkyl nitrate contained in this product may undergo a self-accelerating exothermic reaction if heated above 212°F (100°C).

**Special protective equipment/instructions for firefighters:** Self contained breathing apparatus and full protective clothing must be worn in case of fire. Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full face piece, coat, pants, gloves and boots. Stop leak if you can do so without risk. In the event of fire do not breath fumes. Use water spray to cool unopened containers. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** Flammable liquid and vapor

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate protective equipment and clothing during cleanup. Do not breath mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Section 8 of the SDS for Person Protective Equipment.

**Methods and material for containment and cleanup:** Eliminate all ignition sources if safe to do so (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. THIS PRODUCT IS NOT MISCIBLE IN WATER. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For wast disposal, see section 13 of the SDS.

**Environment Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and Storage

**Precautions for safe handling:** Product can accumulate static charge when handled. Equipment should be grounded. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fumes/gas/mist/vapors/spray. Observe good industrial hygiene practices. Explosion proof general and local exhaust ventilation. All equipment used when handling the product must be grounded. Use only in well-ventilated areas. Use non-sparking tools and explosion-proof equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not eat, drink or smoke when using this product. Launder contaminated clothing before reuse. Avoid environmental contamination. DO NOT HEAT. Observe good hygiene practices.

**Maximum Handling Temperature:** 45°C/113°F

**Conditions for safe storage, including any incompatibilities:** Store locked up. Keep away from heat, sparks, and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place, well-ventilated place, out of direct sunlight. Store in original tightly closed container. Refrigeration recommended. Store away from incompatible materials (see Section 10 of SDS). Store in accordance with local regulations. Separate from oxidizing materials. Use appropriate containment to avoid environmental contamination. Keep at temperature not exceeding 40°C. Keep away from combustible materials.

Tank Storage: Tank must be equipped with foam injection.

**Maximum Storage** 40°C/104°F

## 8. Exposure Controls/personal Protection

### Control Parameters:

#### Occupational Exposure Limits

##### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Kerosine (Petroleum) (CAS 8008-20-6)	TWA	200 mg/m <sup>3</sup>	Non-aerosol
Nonane (CAS 111-84-2)	TWA	200 ppm	

##### US. NIOSH: Pocket Guid to Chemical Hazards

Components	Type	Value	Form
Kerosine (Petroleum) (CAS 8008-20-6)	TWA	100 mg/m <sup>3</sup>	
Nonane (CAS 111-84-2)	TWA	1050 mg/m <sup>3</sup> , 200 ppm	

##### Other Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
2-Ethylhexyl Nitrate	TWA	1 ppm	

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<b>Biological Limit values</b>	No Biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	
<b>US ACGIH Threshold Limit Values: Skin Designation</b>	
Kerosine (Petroleum) (CAS 8008-20-6)	Can Be Absorbed through the skin.
<b>Appropriate engineering Controls:</b>	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information:</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporating of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, ect. Use personal protective equipment as required.
<b>Eye/face protection:</b>	Chemical respirator with organic vapor cartridge and full facepiece. Safety glasses. If potential for splash or mist exists, wear chemical goggles or face shield.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water.
<b>Other:</b>	Wear apron or protective clothing in case of contact. Wear appropriate thermal protective clothing when necessary.
<b>Respiratory Protection:</b>	Use respirator with a combination organic vapor and high efficiency filter cartridge and full face piece if recommended exposure limit is exceeded. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill cleanup sites.
<b>Thermal Hazards</b>	Wear appropriate thermal protective clothing when necessary.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices. Do not eat, drink or smoke when using this product. Avoid contact with skin. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Clear to yellow/green
Oder:	Pungent, petroleum
Oder threshold:	No data available
pH:	3.74 – 4.14
Freezing point:	-30°F (-35°C)
Boiling point:	> 212°F (100°C)
Flash point:	> 100°F (>38°C) (D93 PMCC)
Evaporation rate:	< 1 (n-butyl acetate = 1)
Flammability (solid, gas):	No data available
<b>Upper/lower limit on flammability or explosive limits</b>	
Flammability limit – upper (%):	7 V%
Flammability limit – lower (%):	0.3 V%
Explosive limit – upper (%):	No data available
Explosive limit – lower (%):	No data available
Vapor pressure (air=1):	0.2 torr (20 °C 68 °F)
Vapor density:	4 (Air = 1)
Relative density:	0.8 - 0.9 60.1°F (15.6°C) (H2O = 1)
<b>Solubility(ies)</b>	
Solubility in water:	Negligible
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	5.24 (measured)
Auto-ignition temperature:	266 °F (130 °C )
Decomposition temperature:	> 212 °F (100 °C )
Viscosity:	No data available
<b>Other infomration</b>	
Pour Point Temperature:	< -40 °F (-40 °C)
Percent volatile:	100% (percent by weight)

## 10. Stability and reactivity

<b>Reactivity:</b>	The product is stable and non-reactive under normal conditions of use, storage and transport. Oxidizes on contact with air.
<b>Chemical stability:</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	May undergo self-accelerating, exothermic reaction if heated above 212 °F.
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames, oxidizing material, and other ignition sources. Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.
<b>Incompatible Materials:</b>	Copper and cooper alloys. Strong acids. Strong bases. Nitriles. Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Hazardous decomposition products are not expected to form during normal storage. Thermal decomposition is highly dependent on conditions. A complex micture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evoloved when this material undergoes commbustion, themal, or oxidative degradation.



## 11. Toxicological Information

### Information on likely routes of exposure

<b>Inhalation:</b>	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness, headach, nausea, and vomiting.
<b>Ingestion:</b>	Harmful if swallowed. Droplets of product aspirated into the lungs through ingestion or vomiting may cause a serious chmical pneumonia.
<b>Skin contact:</b>	Harmful if contact with skin. Causes skin irritation
<b>Eye contact:</b>	Direct contact with eyes may cause temporary irritation.

### Symptoms related to the physical, chemical and toxicological charateristics

May cause drowsiness and dizziness, headache, nausea, and vomiting. Irritation of nose and throat. Jaundive. Aspiration may cause pulmonary edema and pneumonitis. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.

### Information on toxicology effects, Acute toxicity

#### Oral

<b>Product:</b>	ATEmix 300-2000 mg/kg. Ingestion of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. May cause irritation of the gastrointestinal lining. Symptoms include: headache, dizziness, drowsiness, nausea, fatigue, heart palpitations, confusion.
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#### Dermal

<b>Product:</b>	ATEmix 1,000-2,000 mg/kg. Absorption of 2-ethylhexyl nitrate through the skin may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include: headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness.
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#### Inhalation

<b>Product:</b>	ATEmix (, 4 h): 1 -2 mg/L. Dusts, mists and fumes. Inhalation of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include: headache, dizziness, drowsiness, nausea, fatigue, stupor, behavioral changes, weakness, heart palpitations, confusion and possible loss of consciousness.
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#### Skin Corrosion/Irritation

<b>Product:</b>	Not classified as a primary skin irritant. Remarks: Prolonged or repeat skin contact as from clothing wet with material may cause dermatitis. Symptoms may include: redness, edema, drying, and cracking of the skin. Alcohol may enhance the toxic effects.
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#### Serious Eye Damage/Eye Irritation

<b>Product:</b>	Direct contact with eyes may cause temporary irritation.
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#### Respiratory sensitization:

No data available.

#### Skin sensitization:

<b>Product:</b>	Classification: Not a skin sensitizer (Literature)
2-Ethylhexanol	Classification: Not a skin sensitizer (Supplier Information)

#### Germ cell mutagenicity

<b>Product:</b>	This material has not exhibited mutagenic or genotoxic potential in laboratory tests.
2-Ethylhexyl nitrate	This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

#### Carcinogenicity:

This product is not considered to ba a carcinogen by IARC, ACGIH, NTP, or OSHA.



**Specific Target Organ Toxicity – Single Exposure**

2-Ethylhexyl nitrate      If materials is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

**Aspiration Hazard**

Product:                      May be fatal if swallowed and enters airways.

**Chronic effects**

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified.

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified.

**Reproductive toxicity:**

This product is not expected to cause reproductive or developmental effects.

**Specific Target Organ Toxicity – Single Exposure:**

2-Ethylhexanol              May cause drowsiness and dizziness  
Prolonged exposure to 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness.

**Specific Target Organ Toxicity – Repeated Exposure:**

May cause damage to organs (bone marrow, liver, spleen) through prolonged or repeated exposure.

**12. Ecological Information**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Fish**

Product                      LC 50 (Zebra Fish, 4d): 2mg/l  
NOEC (Zebra Fish, 4 d): 1.52 mg/l  
LC 50 (Golden Orfe, 4 d): > 1,000 mg/l

2-Ethylhexyl nitrate      LC 50 (Zebra Fish, 4d): 2mg/l  
NOEC (Zebra Fish, 4 d): 1.52 mg/l

**Aquatic Invertebrates**

Product                      EC50 (Water flea (Daphnia magna), 2d): > 12.6 mg/l  
EC50 (Water flea (Daphnia magna), 2d): > 1,000 mg/l

2-Ethylhexyl nitrate      EC50 (Water flea (Daphnia magna), 2d): > 12.6 mg/l

**Toxicity to Aquatic Plants**

Product                      EC50 (Alga, 3 d): 3.222 mg/l  
EC50 (Green algae (Selenastrum capricornutum), 4 d): > 1,000mg/l

2-Ethylhexyl nitrate      EC50 (Alga, 3 d): 3.22 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to above-ground organisms**

No data available

**Toxicity to microorganisms**

Product EC50 (Sludge, 0.3 d): > 1,000 mg/l

2-Ethylhexyl nitrate EC50 (Sludge, 0.3 d): > 1,000 mg/l

**Persistence and Degradability**

**Biodegradation**

Product Miscellaneous, 0%, 28 d, Not really degradable.

Product OECD TG 301 B, 74%, 28 d, readily biodegradable.

2-Ethylhexyl nitrate Miscellaneous, 0%, 28 d, Not really degradable.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** No data available

**Partial Coefficient n-octanol / water (log Kow)**

Product Log Kow: 5.24 (Measured)

Log Kow: 4.89 (Measured)

2-Ethylhexyl nitrate Log Kow: 5.24 (Measured)

Nonane (CAS 111-84-2) Log Kow: 5.46

**Mobility**

Product soil - 3.75

2-Ethylhexyl nitrate soil - 3.75

**Other Adverse Effects:**

No other adverse environmental effects (e.g. Ozon depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal Instructions:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/ water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous Waste Code**

The waste code should be assigned in discussion between the user, the producer, and the waste disposal company.

**Wast from residues/unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal Instructions).

**Contaminated Packaging:**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.



## 14. Transport Information

### DOT

UN Number: UN1202  
UN Proper Shipping Name: Diesel Fuel  
Transport Hazard Class(es)  
    Class: 3  
    Label(s): NONE  
Packing Group: III  
Marine Pollutant: Yes  
Special Precautions for user: Read safty instruction, SDS and emergency procedures before handling.

### IMDG

UN Number: UN 1202  
UN Proper Shipping Name: Diesel Fuel  
Transport Hazard Class(es)  
    Class: 3  
    Labels: 3  
    EmS No.: F-A, S-E  
Packing Group: III  
Marine Pollutant: Yes  
Special precautions for user: Read safty instruction, SDS and emergency procedures before handling.

### IATA

UN Number: UN 1202  
UN Proper Shipping Name: Diesel Fuel  
Transport Hazard Class(es)  
    Class: 3  
    Labels:  
Marine Pollutant: Yes  
Packing Group: III  
Environmental Hazards: Marine Pollutant  
ERG Code: 3L  
Special Precautions for user: Read safty instruction, SDS and emergency procedures before handling.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and

## 15. Regulatory Information

### US Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Nonane (CAS 111-84-2) 1.0 % One-Time Export Notification only.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

### CERCLA Hazardous Substance List (40 CFR 302.4)

Nonane (CAS 111-84-2) Listed

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311 Hazardous Chemical**

Fire Hazard  
 Immediate (Acute) Health Hazards

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated.

**US State Regulations**

**US Massachusetts RTK—Substance List**

Kerosine (Petroleum) (CAS 8008-20-6)  
 Nonane (CAS 111-84-2)

**US New Jersey Worker and Community Right-to-Know Act**

Kerosine (Petroleum) (CAS 8008-20-6)  
 Nonane (CAS 111-84-2)

**US Pennsylvania Worker and Community Right-to-Know Law**

Kerosine (Petroleum) (CAS 8008-20-6)  
 Nonane (CAS 111-84-2)

**US Rhode Island RTK**

Not regulated

**US California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia (AICS)	Australian Inventory of Chemical Substances (AICS)	Yes
Canada (DSL)	Domestic Substances List (DSL)	Yes
Canada (NDSL)	Non-Domestic Substances List (NDSL)	NO
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances. (REACH)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemical List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substance Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)  
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

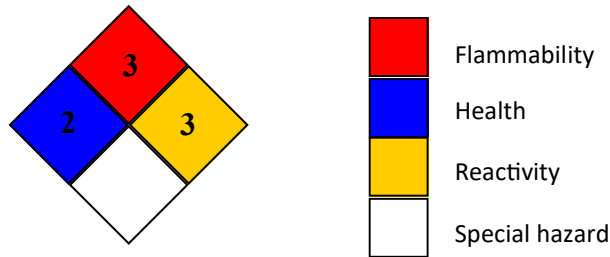
**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	*	2
<b>Flammability</b>	3	
<b>Physical Hazards</b>	3	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating Not Possible;  
\*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating Not Possible;

**Issue Date:** 6/27/2017  
**Version #:** 1.0  
**Source of Information:** Internal Company data and other publically available resources.  
**Further Information:** Contact Supplier (see Section 1)  
**Disclaimer:** As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim and liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material of the results to be obtained from the use thereof. Compliance with all applicable feral, state, and local regulations remains the responsibility of the user.