# SAFETY DATA SHEET

## SECTION 1 ◆ IDENTIFICATION

| | | |
|---|---|---|
| Magellan Midstream Partners<br>One Williams Center<br>Tulsa, OK 74172 | For Emergency Source Information Contact:<br>➢ 3E Contact: (877-852-0015 or +1 (760) 602-8700 | |
| **GHS PRODUCT IDENTIFIER:** Diesel Fuels (all Grades), Fuel Oil (all grades), High Sulfur Diesel Fuel, Low Sulfur Diesel Fuel, Ultra Low Sulfur Diesel Fuel, Off-Road Diesel Fuel, Dyed Diesel Fuel, X Grade, X-1. | **CHEMICAL FAMILY:**<br>Petroleum Hydrocarbon | **PRODUCT USES:** Used primarily as a fuel source for internal combustion engines. |

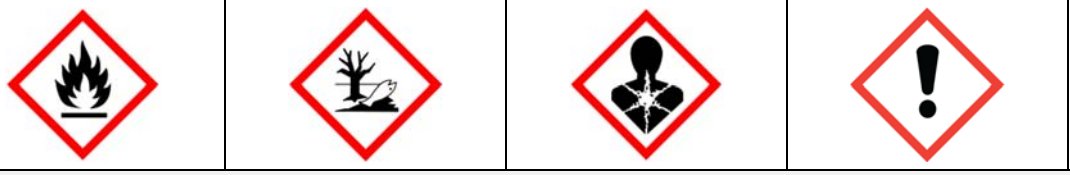
## SECTION 2 ✷ HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

| | | |
|---|---|---|
| Aspiration Hazard - Category 1 | Carcinogenicity - Category 2 | Flammable Liquid and Vapor- Category 3 |
| Germ Cell Mutagenicity - Category 2 | Eye Damage/Irritation - Category 2B | Skin Corrosion/Irritation - Category 2 |
| Hazardous to the Aquatic Environment - Acute Hazard - Category 3 | Hazardous to the Aquatic Environment - Chronic Hazard - Category 3 | |
| Specific Target Organ Toxicity (Repeat Exposure) - Category 2 | Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis) | |

GHS LABEL ELEMENTS

**Diesel Fuels, All Grades**

| GHS PICTOGRAMS | SIGNAL WORD |
|---|---|
|  | **DANGER** |

HAZARD STATEMENTS

| | | |
|---|---|---|
| May cause drowsiness or dizziness. | May be fatal if swallowed and enters airways. | |
| Causes skin irritation. | Harmful to aquatic life. | Flammable liquid and vapor. |
| May cause genetic defects. | May cause respiratory irritation. | Suspect of causing cancer. |

PRECAUTIONARY STATEMENTS

*Prevention*

| | |
|---|---|
| Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. | |
| Ground/bond container and receiving equipment. | Use only non-sparking tools. |
| Use explosion-proof electrical/ ventilating/ lighting/equipment. | |
| Take precautionary measures against static discharge. | Keep out of reach of children. |
| Wear protective gloves/protective clothing/eye protection/face protection. | |
| Wash hands and forearms thoroughly after handling. | Obtain special instructions before use. |
| Do not breathe mist/vapors/spray. | Use only outdoors or in well-ventilated area. |
| Do not eat, drink or smoke when using this product. | Avoid release to the environment. |
| Do not handle until all safety precautions have been read and understood. | |

*Response*

| |
|---|
| In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held fire extinguisher. |
| IF exposed or concerned: Get medical advice/attention. |

IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

*Storage*

| | | | |
|---|---|---|---|
| Store in a well-ventilated place | Keep cool | Store locked up | Keep container tightly closed |

*Disposal*

Dispose of contents/container in accordance with local/regional/national/international regulations.

SUPPLIER INFORMATION

| | | |
|---|---|---|
| Magellan Midstream Partners | One Williams Center | Tulsa, OK 74172 |

## SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

| INGREDIENT | CAS NUMBER | PERCENTAGE (%) |
|---|---|---|
| Diesel fuel | 68476-34-6 | 100 |
| Naphthalene | 91-20-3 | 1-3 |
| n-Nonane | 111-84-2 | 1-3 |
| Hexane (All isomers) | 110-54-3 | 1-3 |
| Heptane | 142-82-5 | 1-2 |
| Octane (All isomers) | 111-65-9 | 1–2 |

## SECTION 4 ✚ FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids, Get Medical Aid.

**SKIN:** Quickly remove contaminated clothing and immediately wash skin with plenty of soap and water for at least 15 minutes. Get medical aid if irritation develops or persists.

**INGESTION:** Do not induce vomiting. Call a physician and/or transport to an emergency facility immediately.

**INHALATION:** Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give cardiopulmonary resuscitation. If breathing is difficult, give medical oxygen.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY

## SECTION 5 ⌘ FIRE-FIGHTING MEASURES

**SEE SECTION 9 FOR FLAMMABILITY PROPERTIES**

**COMBUSTIBLE!** This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, these vapors can burn in the open or explode in confined spaces. Being heavier than air, flammable vapors may travel long distances along the ground before reaching a point of ignition and flashing back.

**SUITABLE EXTINGUISHING MEDIA:** Water fog, dry chemical, foam, or Carbon Dioxide. Use water spray to cool nearby containers and structure exposed to fire. Water fog or spray are of value in cooling tanks and containers but may not achieve extinguishment.

**HAZARDOUS REACTIONS/DECOMPOSITION:** Burning or excessive heating may produce carbon monoxide and carbon dioxide, also other harmful gases/vapors including oxides and/or other compounds of chlorine, manganese, and bromine. Also, diesel Exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.

**SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS:** For fires involving this material, do not enter any enclosed or confined space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind of the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water. Burning liquid will float on water. Notify appropriate authorities if liquid enters sewer/waterways.

## SECTION 6 ❖ ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **PERSONAL PRECAUTIONS** | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Use personal protective equipment. All equipment used when handling the product must be grounded. Ensure adequate ventilation. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Stop leak if you can do so without risk. |
| **METHODS FOR CONTAINMENT** | A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike far ahead of liquid spill for later disposal. |
| **METHODS FOR CLEANING UP** | Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal. |
| **OTHER INFORMATION** | Water spray may reduce vapor but may not prevent ignition in closed spaces. |

## SECTION 7 ✂ HANDLING AND STORAGE

Prior to working with this product workers should be trained on its proper handling and storage

| | |
|---|---|
| **PRECAUTIONS FOR SAFETY HANDLING** | ➢ Use only as a motor fuel.<br>➢ Do not siphon by mouth.<br>➢ Handle as a flammable liquid.<br>➢ Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.<br>➢ 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 Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents." |
| **STORAGE PROCEDURES** | ➢ Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers.<br>➢ Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.<br>➢ Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code".<br>➢ Avoid storage near incompatible materials. |
| **INCOMPATIBILITIES** | ➢ Keep away from strong oxidizers. |

## SECTION 8 ⌗ EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS**

| Chemical Name | ACGIH TLV (2013) | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Diesel | TWA: 100 mg/M$^3$ (*Skin)* | Not Applicable | Not Applicable |
| Naphthalene | TWA: 10 ppm<br>STEL: 15 ppm<br>*Skin* | TWA: 10 ppm | 250 ppm |
| n-Nonane | TWA: 200 ppm | Not Applicable | Not Applicable |
| Hexane(All isomers) | TWA: 50 ppm<br>*Skin* | TWA: 500 ppm | 1,100 ppm |
| Heptane | TWA: 400 ppm<br>STEL: 500 ppm | TWA: 500 ppm | 750 ppm |
| Octane (All isomers) | TWA: 300 ppm | TWA: 500 ppm | 1,000 ppm |

**ENGINEERING MEASURES:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits and flammability limits, particularly in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

**PERSONAL PROTECTIVE EQUIPMENT**

**Personal Protective Equipment: Respiratory**

Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for non-routine and emergency use.

**Personal Protective Equipment: Hands**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Personal Protective Equipment: Eyes**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, or mists. Keep away from eyes. Eye contact can be avoided by wearing safety glasses or chemical splash goggles.

**Personal Protective Equipment: Skin and Body**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Keep away from skin. Skin contact can be minimized by wearing protective gloves such as neoprene, nitrile-butadiene rubber, etc. and, where necessary, impervious clothing and boots. Leather goods contaminated with this product should be discarded. A source of clean water should be available in the work area for flushing eyes and skin. Flame Retardant Clothing is recommended.

## SECTION 9 ⚡ PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **BOILING POINT** (760 MM HG)**:** 325-700 °F/162-371 °C | **PERCENT VOLATILE BY VOLUME:** Slight |
| **SPECIFIC GRAVITY ($H_2O$ = 1):** 0.84-0.93 | **VISCOSITY UNITS, TEMP:** No data |
| **EVAPORATION RATE (BuAc = 1):** 0.02 | **VAPOR DENSITY (AIR =1):** 4 |
| **VAPOR PRESSURE AT** 20°C**:** <3.0 mm Hg | **SOLUBILITY IN WATER:** Negligible |
| **APPEARANCE AND ODOR:** Clear to straw colored liquid; petroleum distillates/kerosene odor (may be dyed red). | |
| **FLASH POINT:** (Method Used) 125-190 °F/51.6-87.7 °C | **FLAMMABLE LIMITS:** LEL: 0.4%<br>UEL: 8.0% |
| **AUTOIGNITION TEMPERATURE:** 495 °F/ 257.2 °C | **VOC CONTENT:** 100% |

## SECTION 10 ⌑ STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable under normal temperatures and pressures

**HAZARDOUS REACTION POTENTIAL:** Will not occur

**CONDITIONS TO AVOID:** Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

**INCOMPATIBLE PRODUCTS:** Keep away from strong oxidizers.

**MATERIALS TO AVOID:** Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

**HAZARDOUS POLYMERIZATION:** Has not been reported

**OTHER PHYSICAL AND CHEMICAL PROPERTIES:** If uninhibited, diesel will cause rusting of copper and alloys containing copper.

## SECTION 11 ❁ TOXICOLOGICAL INFORMATION

### *DIESEL FUELS*

Diesel may be irritating to the eyes, respiratory system and skin. The main hazard associated with diesel is chemical pneumonitis that may arise following aspiration of liquid or inhalation of mist/vapor.

Toxicity

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Rat | 5,001 mg/Kg | $LD_{50(dermal)}$ | Rabbit | 2,001 mg/Kg | $LC_{50(inh)}$ | Rat (4 hours) | 7.64 mg/l |

**CARCINOGENICITY**

| | | | |
|---|---|---|---|
| **IARC** | Inadequate evidence in animals | Inadequate evidence in humans | Group 3: not classifiable as a human carcinogen |
| **NTP** | Not Listed | | |
| **California (Prop 65):** Listed as carcinogen | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |

RTECS #: LS9142500

### *NAPHTHALENE*

Inhalation may cause respiratory tract irritation. Hemolytic anemia (destruction of red blood cells) is the primary health concern for humans exposed to naphthalene for either short or long periods of time. Other effects may include nausea, profuse perspiration, vomiting, kidney damage and liver damage. Chronic exposure may cause lung damage.

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Rat | 490 mg/kg | $LD_{50(dermal)}$ | Rabbit | >20 g/kg | $LC_{50(inh)}$ | Rat (1 hour) | No Data |

| | |
|---|---|
| Specific organ toxicity, single exposure: No data available | Specific organ toxicity, repeated exposure: No data available |

**CARCINOGENICITY**

| | | | |
|---|---|---|---|
| **IARC** | Sufficient evidence in animals | Inadequate evidence in humans | Group 2B: Possibly carcinogenic to humans |
| **NTP** | Listed as reasonably anticipated to be a human carcinogen | | |
| **California (Prop 65):** Listed as carcinogen | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |

**MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS**

| | |
|---|---|
| Respiratory or Skin sensitization: No data available | Germ cell mutagenicity: No data available |
| Reproductive toxicity: No data available | Teratogenicity: No data available |
| Skin Corrosion/irritation: Testing showed no irritation | Serious eye damage, irritation-rabbit: mild eye irritation |
| Synergistic effects: No data available | Aspiration hazard: No data available |

RTECS #: QJ0525000

### *NONANE*

Nonane may cause irritation eyes, skin, nose, and throat. Other symptoms may include: headache, drowsiness, dizziness, confusion, nausea, tremor, and incoordination. If liquid is aspirated it may cause chemical pneumonitis.

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Mouse | 218 mg/kg | $LD_{50(dermal)}$ | Rabbit | No Data | $LC_{50(inh)}$ | Rat (4 hours) | 3,200 ppm |

| | | | |
|---|---|---|---|
| Specific organ toxicity, single exposure: May cause drowsiness | | Specific organ toxicity, repeated exposure: No data available | |
| **CARCINOGENICITY** | | | |
| **IARC** | Not Listed | | |
| **NTP** | Not Listed | | |
| **California (Prop 65):** Not Listed | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |
| **MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS** | | | |
| Respiratory or Skin sensitization: No data available | | Germ cell mutagenicity: No data available | |
| Reproductive toxicity: No data available | | Teratogenicity: No data available | |
| Skin Corrosion/irritation: Testing showed no irritation | | Serious eye damage, irritation-rabbit: mild eye irritation | |
| Synergistic effects: No data available | | Aspiration hazard: No data available | |
| RTECS #: RA6115000 | | | |

***HEXANE (ALL ISOMERS)***

May cause respiratory tract irritation. Exposure produces central nervous system depression. Inhalation of vapors may cause drowsiness and dizziness. Chronic exposure may cause liver damage. Adverse reproductive effects have been reported in animals. Laboratory experiments have resulted in mutagenic effects.

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Rat | 15.8 g/kg | $LD_{50(dermal)}$ | Rabbit | No Data | $LC_{50(inh)}$ | Rat (4 hours) | 48,000 ppm |

| | |
|---|---|
| Specific organ toxicity, single exposure: May cause drowsiness or dizziness | Specific organ toxicity, repeated exposure: may cause damage to organs from repeated or prolonged exposure. May cause nervous system damage. |

**CARCINOGENICITY**

Testicular tumors shown in rats.

| | | | |
|---|---|---|---|
| **IARC** | Not Listed | | |
| **NTP** | Not Listed | | |
| **California (Prop 65):** Not listed as carcinogen | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |

| | |
|---|---|
| **MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS** | |
| Respiratory or Skin sensitization: No data available | Germ cell mutagenicity: No data available |
| Reproductive toxicity: overexposure may cause reproductive disorders based on lab animals. May damage fertility in humans. | Teratogenicity: No data available |
| Skin Corrosion/irritation: No data available | Serious eye damage, irritation -rabbit: mild eye irritation |
| Synergistic effects: No data available | Aspiration hazard: May be fatal if swallowed and enters airway. |
| RTECS #: MN9275000 | |

***HEPTANE***

Heptane can affect the body if it is inhaled, comes in contact with the eyes or skin, or is swallowed. Hexane vapor is a narcotic and a mild upper respiratory irritant. Peripheral nerve damage has been reported to occur in workers exposed to hexane vapors, characterized by progressive weakness and numbness in the extremities.

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Mouse | 222 mg/kg | $LD_{50(dermal)}$ | Rabbit | No Data | $LC_{50(inh)}$ | Rat (4 hours) | 103 g/$M^3$ |

| | |
|---|---|
| Specific organ toxicity, single exposure: May cause drowsiness | Specific organ toxicity, repeated exposure: No data available |

**CARCINOGENICITY**

| | |
|---|---|
| **IARC** | Not Listed |
| **NTP** | Not Listed |

| | | | |
|---|---|---|---|
| **California (Prop 65):** Not Listed | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |

**MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS**

| | |
|---|---|
| Respiratory or Skin sensitization: No data available | Germ cell mutagenicity: No data available |
| Reproductive toxicity: No data available | Teratogenicity: No data available |
| Skin Corrosion/irritation: Testing showed no irritation | Serious eye damage, irritation-rabbit: mild eye irritation |
| Synergistic effects: No data available | Aspiration hazard: No data available |

RTECS #: MI7700000

***OCTANE***

Octane can affect the body if it is inhaled, comes in contact with the skin or eyes or is swallowed. Octane vapor is a mild narcotic and mucous membrane irritant. No chronic systemic effects have been reported in humans.

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|---|---|---|
| $LD_{50(oral)}$ | Mouse | No Data | $LD_{50(dermal)}$ | Rabbit | No Data | $LC_{50(inh)}$ | Rat (4 hours) | 118 g/$M^3$ |

| | |
|---|---|
| Specific organ toxicity, single exposure: May cause drowsiness | Specific organ toxicity, repeated exposure: No data available |

**CARCINOGENICITY**

| | |
|---|---|
| **IARC** | Not Listed |
| **NTP** | Not Listed |

| | | | |
|---|---|---|---|
| **California (Prop 65):** Not Listed | **NIOSH:** Not Listed | **ACGIH:** Not Listed | **OSHA:** Not Listed |

**MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS**

| | |
|---|---|
| Respiratory or Skin sensitization: No data available | Germ cell mutagenicity: No data available |
| Reproductive toxicity: No data available | Teratogenicity: No data available |
| Skin Corrosion/irritation: Testing showed no irritation | Serious eye damage, irritation-rabbit: mild eye irritation |
| Synergistic effects: No data available | Aspiration hazard: No data available |

RTECS #: RG8400000

## SECTION 12 ✵ ECOLOGICAL INFORMATION

***DIESEL***

**TOXICITY**

| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
|---|---|---|---|---|---|
| $LC_{50}$ | Fathead Minnow | 35 mg/L 96 hours | $EC_{50}$ | ---------- | No Data |
| $EC_{50}$ | ---------- | No Data | $EC_{50}$ | ---------- | No Data |

**PERSISTENCE AND DEGRADABILITY**

Readily biodegradable in the environment. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethyl benzene and xylene in groundwater, resulting in elongated plumes of these constituents.

| BIOACCUMULATIVE POTENTIAL | | | | | |
|---|---|---|---|---|---|
| Log $P_{ow}$ | | 3 - 6.0 | BCF | | No Data |
| **MOBILITY IN SOIL** | | | | | |
| $K_{oc}$ (Soil/water Partition Coefficient) | | | No Data | | |
| ***NAPHTHALENE*** | | | | | |
| **TOXICITY** | | | | | |
| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
| $LC_{50}$ | Fathead Minnow | 1-6.5 mg/L 96 hours | $EC_{50}$ | Water Flea | 2.16 mg/L 48 Hours |
| $EC_{50}$ | Green algae | 0.4 mg/L 96 Hours | $EC_{50}$ | Microtox | 0.93 mg/L 30 Min |
| **BIOACCUMULATIVE POTENTIAL** | | | | | |
| Log $P_{ow}$ | | 3.3 | BCF | | 85.1 |
| $K_{oc}$ (Soil/water Partition Coefficient) | | | 1,191 | | |
| ***NONANE*** | | | | | |
| **TOXICITY** | | | | | |
| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
| $LC_{50}$ | ---------- | No Data | $EC_{50}$ | ---------- | No Data |
| $EC_{50}$ | ---------- | No Data | $EC_{50}$ | ---------- | No Data |
| **BIOACCUMULATIVE POTENTIAL** | | | | | |
| Log $P_{ow}$ | | 5.65 | BCF | | No Data |
| $K_{oc}$ (Soil/water Partition Coefficient) | | | No Data | | |
| ***HEXANE*** | | | | | |
| **TOXICITY** | | | | | |
| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
| $LC_{50}$ | Fathead Minnow | 2.5 mg/L 96 hours | $EC_{50}$ | Water Flea | 3.87 mg/L 48 Hours |
| $EC_{50}$ | Green algae | 12.8 g/L 3 hours | $EC_{50}$ | Microtox | No Data |
| **BIOACCUMULATIVE POTENTIAL** | | | | | |
| Log $P_{ow}$ | | 3.9 | BCF | | No Data |
| ***HEPTANE*** | | | | | |
| **TOXICITY** | | | | | |
| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
| $LC_{50}$ | Goldfish 24 hours | 4 mg/L | $EC_{50}$ | Water Flea | 1.5 mg/L 48 Hours |
| $EC_{50}$ | ---------- | No Data | $EC_{50}$ | ---------- | No Data |
| **BIOACCUMULATIVE POTENTIAL** | | | | | |
| Log $P_{ow}$ | | >3.0 | BCF | | No Data |
| $K_{oc}$ (Soil/water Partition Coefficient) | | | No Data | | |
| ***OCTANE*** | | | | | |
| **TOXICITY** | | | | | |
| Type Of Dose | Specie | Result | Type Of Dose | Specie | Result |
| $LC_{50}$ | Rice Fish 96 hours | 0.42 mg/L | $EC_{50}$ | Water Flea | 0.38 mg/L 48 Hours |
| $EC_{50}$ | Green algae | 5.8 g/L 72 hours | $EC_{50}$ | ---------- | No Data |

| BIOACCUMULATIVE POTENTIAL | | | |
|---|---|---|---|
| Log $P_{ow}$ | 5.15 | BCF | No Data |
| $K_{oc}$ (Soil/water Partition Coefficient) | No Data | | |

## SECTION 13 ✱ DISPOSAL CONSIDERATIONS

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

Maximize product recovery for reclaim and reuse. Implement waste minimization principles. EPA U.S. Waste Codes: "Ignitable hazardous waste" (D001), unless proven otherwise. Use approved treatment, transporters, and disposal sites in compliance with all laws.

Waste Disposal Method: Should not be released into the environment.

Contaminated Packaging: Dispose of in accordance with local regulations.

US EPA Waste Number: D001, Waste Flammable Material with a flashpoint <140 °F

## SECTION 14 ▣ TRANSPORTATION INFORMATION

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

| Element | U.S. DOT | IMDG | IATA |
|---|---|---|---|
| UN Number | UN 1993 | UN 1993 | UN 1993 |
| UN Proper Shipping Name | Diesel Fuel | Diesel Fuel | Diesel Fuel |
| Hazard Class | 3 | 3 | 3 |
| Placard/Label |    | | |
| Environmental Hazard | Yes | Yes | Yes |
| Packing Group | III | III | III |

## SECTION 15 ☽ REGULATORY INFORMATION

| Agency | Listing<br>Guidance only, consult specific regulations | | |
|---|---|---|---|
| OSHA | All ingredients are listed as hazardous under 29 CFR 1910.1200 | | |
| CERCLA RQ's<br>(40 CFR Part 102) | Naphthalene – 100 pounds | Hexane – 5,000 pounds | |
| TSCA 8(a) | Naphthalene | n-Heptane | n-Nonane |
| TSCA 8(b) | All components are listed | | |
| SARA (40 CFR Part 355) TPQ's | None of the ingredients are listed | | |
| SARA 302/304/311/312 extremely hazardous substances | None of the ingredients are listed | | |
| SARA 302/304 emergency planning and notification | None of the ingredients are listed | | |
| SARA 302/304/311/312 hazardous chemicals | n-Hexane | Naphthalene | Heptane |
| | Hexane (all isomers) | Nonane | Octane (all isomers) |
| RCRA | Naphthalene – U165 | Hexane - U056 | |
| State Regulations: Massachusetts, New Jersey, and Pennsylvania, and New York | All components are listed except diesel and gasoline | | |

| | | |
|---|---|---|
| SARA 311/312 SDS distribution - chemical inventory - hazard identification | Hexane (Other Isomers): Fire hazard, Immediate (acute) health hazard; Naphthalene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; n-Heptane: Fire hazard; n-Hexane: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; n-Nonane: Fire hazard, Immediate (acute) health hazard; Octane (All Isomers): Fire hazard | |
| EPA Form R Toxic Chemical Release Inventory | n-Hexane | Naphthalene |
| Clean Water Act (CWA) 307 | Naphthalene | |
| Clean Water Act (CWA) 311 | Naphthalene | |
| Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) | n-Hexane | Naphthalene |
| Clean Air Act Section 602 Class I Substances | Not Listed | |
| Clean Air Act Section 602 Class II Substances | Not Listed | |

## SECTION 16 ⌘ OTHER INFORMATION


**NFPA LABEL**


**HMIS III LABEL**

Personal Protection Index

NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

### Acronym List

| | | |
|---|---|---|
| °F=degrees Fahrenheit | °C=degrees Celsius | ACGIH= American Conference of Industrial Hygienists |
| APR=Air Purifying Respirator | BCF= Bioconcentration Factor | BuAc=Butyl Acetate |
| CANUTEC= Canadian Transport Emergency Centre | CAS=Chemical Abstract Service | CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act |
| CHEMTREC= Chemical Transportation Emergency Center | CNS=Central Nervous System | CWA=Clean Water Act |
| DOT=Department of Transportation | EC50= Effective Concentration Fifty | EPA=Environmental Protection Agency |
| g/Kg=Grams per Kilogram | $g/M^3$=Grams per Cubic Meter | GHS=Global Harmonization System |
| $H_2O$=Water | HAP=Hazardous Air Pollutants | HMIS= Hazardous Materials Identification System |
| IARC= International Agency for Research on Cancer | IATA= International Air Transport Association | IMDG= International Maritime Dangerous Goods |
| $LC_{50}$=Lethal Concentration Fifty | $LD_{50}$=Lethal Dose Fifty | LEL=Lower Explosive Limit |
| Log $P_{ow}$ =Octanol/water partition coefficient | mg/Kg=Milligrams per Kilogram | mg/L=Milligrams per Liter |
| mL/Kg=Milliliters per Kilogram | mm HG=millimeters of mercury | NFPA=National Fire Protection Association |

| | | |
|---|---|---|
| NIOSH= National Institute for Occupational Safety and Health | NTP=National Toxicology Program | OSHA=Occupational Safety and Health Administration |
| PEL=Permissible Exposure Limit | ppm=Parts per Million | RCRA=Resource Conservation and Recovery Act |
| RQ=Reportable Quantities | RTECS=Registry of Toxic Effects of Chemical Substances | SARA= Superfund Amendments and Reauthorization Act |
| SDS=Safety Data Sheet | SETIQ= Emergency Transportation System for the Chemical Industry; Mexico | STEL=Short Term Exposure Limit |
| TLV=Threshold Limit Value | TPQ=Threshold Planning Quantity | TSCA=Toxic Substance and Control Act |
| TWA=Time Weighted Average | UEL=Upper Explosive Limit | VOC=Volatile Organic Compounds |

**SDS REVISIONS:** Reformatted to meet GHS Requirements

**SDS CREATION DATE:** 05/30/14 **REVISION #0:** 05/30/14

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DATE: 05/30/14