SAFETY DATA SHEET

SECTION 1 ◆ IDENTIFICATION

Explorer Pipeline Company 6120 South Yale Ave., Suite 1100 Tulsa, OK 74136		**FOR EMERGENCY SOURCE INFORMATION CONTACT:** ✦ (918) 493 - 5100
GHS PRODUCT IDENTIFIER: Diesel Fuels, All Grades **EPL Code:** 74, 75, 77, 80, 81, 84, 7A, 7B, 7C, 7D, 7E, 7H, 7R, 7V, and 7X	**CHEMICAL FAMILY:** Petroleum Hydrocarbon	**PRODUCT USES:** Used primarily as a fuel source for internal combustion engines.

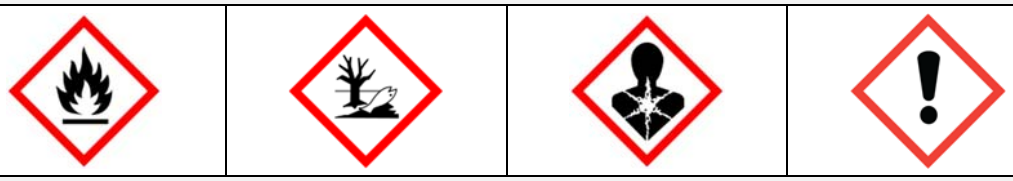
SECTION 2 ✷ HAZARDS IDENTIFICATION

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

Explorer Pipeline Company	6120 South Yale Ave., Suite 1100	Tulsa, Oklahoma 74136

SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Diesel fuel	68476-34-6	85-95
Cetane	27247-96-7	40-60
FAME (Fatty Acid Methyl Esters)	Various	0-5
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, occasionally lifting the upper and lower lids, Get Medical Aid.

SKIN: Quickly remove contaminated clothing and immediately flush skin with plenty of soap and water while removing contaminated clothing and shoes. 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

EXTREMELY FLAMMABLE! 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. ✦ Do not siphon by mouth. ✦ Handle as a flammable liquid. ✦ 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. ✦ 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. ✦ 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. ✦ Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". ✦ Avoid storage near incompatible materials.
INCOMPATIBILITIES	✦ Keep away from strong oxidizers.

SECTION 8 ⌗ EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH TLV (2019)	OSHA PEL	NIOSH IDLH
Diesel	TWA: 100 mg/M^3 (*Skin)*	Not Applicable	Not Applicable
Cetane	Not Applicable	Not Applicable	Not Applicable
Naphthalene	TWA: 10 ppm STEL: 15 ppm *Skin*	TWA: 10 ppm	250 ppm
n-Nonane	TWA: 200 ppm	Not Applicable	Not Applicable
Hexane(All isomers)	TWA: 50 ppm *Skin*	TWA: 500 ppm	1,100 ppm
Heptane	TWA: 400 ppm	TWA: 500 ppm	750 ppm

	STEL: 500 ppm		
Octane (All isomers)	TWA: 300 ppm	TWA: 500 ppm	1,000 ppm

ENGINEERING CONTROLS: Use adequate ventilation to keep vapor concentrations of this product below occupational exposure limits and flammability limits, particularly in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

- **EYES:** Eye protection (ANSI Z87.1 approved) should be worn whenever there is a likelihood of misting or splashing/spraying liquid. Suitable eyewash station should be available. Contact lenses must not be worn.
- **SKIN/BODY:** Chemical protective clothing is recommended based on a thorough PPE hazard assessment. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for specific information.
- **HAND PROTECTION:** Gloves constructed of nitrile, neoprene, or PVC are recommended. Consult manufacturer specifications for specific information.
- **RESPIRATORY PROTECTION:** A NIOSH approved air purifying respirator (APR) with properly selected cartridges may be permissible under certain circumstances where airborne concentrations may exceed exposure limits. Protection provided by APRs is limited, calculate the maximum use concentration for the exposure situation. Use a positive pressure air supplied (Grade D) respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where APRs may not provide adequate protection.
- **OTHER HYGIENIC AND WORK PRACTICES:** Use good personal hygiene practices. In case of skin contact, wash with mild soap and water or a waterless hand cleaner. Immediately remove soaked clothing and wash thoroughly before reuse.

SECTION 9 ϟ 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% 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 FUEL

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

CETANE

Cetane 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	960 mg/Kg	$LD_{50(dermal)}$	Rabbit	>5,000 mg/Kg	$LC_{50(inh)}$	Rat (4 hours)	No Data

CARCINOGENICITY

IARC	Not Listed
NTP	Not Listed

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

RTECS #: QU7925000

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

CETANE

TOXICITY

Type of Dose	Specie	Result	Type of Dose	Specie	Result
LC_{50}	Bluegill	4.5 mg/L 96 hours	EC_{50}	Water Flea	> 12.6 mg/L 48 Hours
EC_{50}	Green algae	3.22 mg/L 72 Hours	EC_{50}	Microtox	No Data

BIOACCUMULATIVE POTENTIAL

Log P_{ow}	No Data	BCF	No Data
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	EC_{50}	Microtox	No Data

		3 hours			
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 1202	UN 1202	UN 1202
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 Guidance only, consult specific regulations		
OSHA	All ingredients are listed as hazardous under 29 CFR 1910.1200		
CERCLA RQ's (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

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: General update

SDS CREATION DATE: 04/29/14 | **REVISION #2:** 07/12/23

DISCLAIMER

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