

SAFETY DATA SHEET

1. Identification

Product identifier	DIESEL FUELS
Other means of identification	
SDS number	102-GHS
Synonyms	Diesel Fuels All Grades * Diesel Fuel No. 2 * Diesel Fuel Oil No. 2 * High Sulfur Diesel Fuel * Low Sulfur Diesel Fuel * Ultra Low Sulfur Diesel Fuel * CARB (California Air Resource Board) Diesel Fuel * Off-Road Diesel Fuel * Dyed Diesel Fuel * X Grade Diesel Fuel * X-1 Diesel Fuel * R5 ULSD * B5 ULSD
Recommended use	Motor fuels. Blendstock for motor fuels. Heating fuels. Refinery feedstock.
Recommended restrictions	No other uses are advised.
Manufacturer/Importer/Supplier	/Distributor information
Manufacturer/Supplier	Valero Marketing & Supply Company and Affiliates
	One Valero Way
	San Antonio, TX 78269-6000
General Assistance	210-345-4593
E-Mail	CorpHSE@valero.com
Contact Person	Industrial Hygienist
Emergency Telephone	24 Hour Emergency 866-565-5220

1-800-424-9300	(CHEMTREC USA)

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (thymus, liver, bone marrow)
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		
		3

Danger

Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

Precautionary statement Prevention

Signal word

Hazard statement

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. Collect spillage.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Hydrogen sulfide (H2S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%	
Fuels, diesel, no. 2	68476-34-6	85 - 100	
Hazardous Components of Complex Mixtures Chemical name	CAS number	%	
Biodiesel - Fatty acid methyl esters	67762-38-3	0 - 10	
Fuels, diesel, C9-18-alkane branched and linear	1159170-26-9	0 - 5	
n-Nonane	111-84-2	1 - 3	
Octane (All isomers)	111-65-9	1 - 2	
Hexane (Other isomers)	96-14-0	0 - 1	
Naphthalene	91-20-3	0 - 1	
n-Heptane	142-82-5	0 - 1	
n-Hexane	110-54-3	0 - 1	

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Composition comments
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Note: Components of hazardous substances/mixtures are listed for disclosure purposes. Ranges may represent maximum regulatory limits or apply to multiple product grades (see Synonyms - Section 1). Typical and actual concentrations of individual components may be substantially less than the maximum values shown or zero, depending on the product grade or specifications.

4. First-aid measures

media

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	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.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	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 hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterized. Sulphur oxides. Nitrogen Oxides (NOx). Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. 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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Retain and dispose of contaminated wash water. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. The product is immiscible with water and will spread on the water surface. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Before entering storage tanks and commencing any operation in a confined area check the atmosphere for oxygen content and flammability. (Subject to applicability) If sulfur compounds are suspected to be present in the product, check the atmosphere for H2S content. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment.
	Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
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 out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/perso	onal protection

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Hazardous Components Type Value of Complex Mixtures Octane (All isomers) (CAS PEL 2350 mg/m3 111-65-9) 500 ppm

US. OSHA Table Z-1 Limits for Air Con Hazardous Components of Complex Mixtures	taminants (29 CFR 1910.1000) Type	Value	
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
х <i>У</i>		500 ppm	
US. ACGIH Threshold Limit Values			
Material	Туре	Value	Form
DIESEL FUELS	TWA	100 mg/m3	Inhalable fraction and vapor.
Components	Туре	Value	Form
Fuels, diesel, no. 2 (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Hazardous Components of Complex Mixtures	Туре	Value	·
n-Nonane (CAS 111-84-2)	TWA	200 ppm	
Octane (All isomers) (CAS 111-65-9)	TWA	300 ppm	
Hexane (Other isomers) (CAS 96-14-0)	STEL	1000 ppm	
	TWA	500 ppm	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Chemical	Hazards		
Hazardous Components of Complex Mixtures	Туре	Value	
n-Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Octane (All isomers) (CAS 111-65-9)	Ceiling	1800 mg/m3	
		385 ppm	
	TWA	350 mg/m3	
		75 ppm	
Hexane (Other isomers) (CAS 96-14-0)	Ceiling	1800 mg/m3	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3	
		15 ppm	
	TWA	50 mg/m3	
		10 ppm	
n-Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		. eee mg/mo	

US. NIOSH: Pocket Guide Hazardous Components of Complex Mixtures	to Chemical Hazards Type		Va	lue
			44	0 ppm
	TWA		35	0 mg/m3
			85	ppm
n-Hexane (CAS 110-54-3)	TWA		18	0 mg/m3
			50	ppm
Biological limit values				
ACGIH Biological Exposu Hazardous Components of Complex Mixtures		Determinant	Specimen	Sampling Time
Naphthalene (CAS 91-20-3)	2.5 µg/l	1-Hydroxypyre ne, with hydrolysis (1-HP)	Urine	*
n-Hexane (CAS 110-54-3)	0.5 mg/l	2,5-Hexanedio ne, without hydrolysis	Urine	*
* - For sampling details, plea	ase see the source docu	iment.		
xposure guidelines				
US - California OELs: Skir	designation			
Naphthalene (CAS 91-2 n-Hexane (CAS 110-54 US ACGIH Threshold Limi	-3)	Can be	absorbed throu absorbed throu	
Fuels, diesel, no. 2 (CA Naphthalene (CAS 91-2 n-Hexane (CAS 110-54	20-3)	Dangei	of cutaneous a of cutaneous a of cutaneous a	bsorption
oppropriate engineering ontrols	Ventilation rates sho exhaust ventilation,	ould be matched to or other engineerin posure limits have	conditions. If ap g controls to ma not been establ	Good general ventilation should be used. oplicable, use process enclosures, local aintain airborne levels below recommended lished, maintain airborne levels to an shower.
ndividual protection measure				
Eye/face protection	Wear safety glasses	s with side shields (or goggles).	
Skin protection Hand protection				are recommended. Be aware that the liquid le. Suitable gloves can be recommended by
Skin protection Other	Wear appropriate ch	nemical resistant cl	othing. Use of a	n impervious apron is recommended.
Respiratory protection	Chemical respirator	with organic vapor	cartridge and fu	III facepiece.
Thermal hazards	Wear appropriate th	ermal protective cl	othing, when ne	cessarv
General hygiene onsiderations	Observe any medica personal hygiene m	al surveillance requ easures, such as w	irements. When ashing after har	using do not smoke. Always observe good ndling the material and before eating, g and protective equipment to remove
). Physical and chemica	properties			
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Appearance Rhygical state	Liquid			

Physical state	Liquid.
Form	Liquid.
Color	Clear. Straw.
Odor	Kerosene (strong).
Odor threshold	Not available.

рН	Not available.
Melting point/freezing point	-60.07 °F (-51.15 °C) Estimated
Initial boiling point and boiling range	325 - 700 °F (162.8 - 371.1 °C)
Flash point	> 100.0 °F (> 37.8 °C) Closed Cup
Evaporation rate	0.02
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0.4 %
Flammability limit - upper (%)	8 %
Vapor pressure	< 1 mm Hg (20°C)
Vapor density	3 (Air = 1)
Relative density	0.82 - 0.87
Relative density temperature	60 °F (15.56 °C)
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	494.96 °F (257.2 °C)
Decomposition temperature	Not available.
Viscosity	2 - 4.5 mm²/s
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
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Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain.
Information on toxicological eff	fects
A outo toxiaity	May be fatal if swallowed and optors ainways. Harmful if inhaled, Hydrogon sulfide, a highly toyic

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.

Naphthalene (CAS 91-20-3) Acute Dormal LD50 Rabbit Permal LD50 Rabbit Permal Pe	Components	Species	Test Results	
Intelation LC50 Rat 4.1 mg/l, 4 hours Hazardous Components of Complex Mixtures Species Test Results Naphtaline (CAS 91-20-3)	Fuels, diesel, no. 2 (CAS 68476-3	4-6)		
LCS0 Rat 4.1 mg/l, 4 hours Hazardous Components of Compion Mixtures Species Test Results Naphthelene (CAS 91-20-3)	<u>Acute</u>			
Hazardous Components of Complex Mixtures Species Test Results Complex Mixtures Acute Species Species Acute Dormal > 2 g/kg Dormal L050 Ratb > 2 g/kg Oral L050 Rat 490 mg/kg n:Heptane (CAS 142-82-5)		- /		
Complex Mixtures Naphthalene (CAS 91-20-3) Acute Dermal LD50 Rabit LD50 Rabit Coroll 2 g/kg Oral 490 mg/kg ID50 Rat Acute 490 mg/kg Inhalation > 29.20 mg/l, 4 Hours Vapor 2000 mg/kg LD50 Rat Oral 2000 mg/kg LD50 Rat Oral 28710 mg/kg LD50 Rat Oral 28710 mg/kg LD50 Rat Oral 28710 mg/kg LD50 Rat Solic corrosion/irritation Causes skin irritation. Solic corrosion/irritation Cause skin irritation. Respiratory sensitization Not a respiratory sensitization. Skin sensitization Not a respiratory sensitization Respiratory sensitization Not a respiratory sensitization or Carcinogenicity Nogenobicity Suspected of causing cancer. Interpreter Respira			•	
Acute Dormal LD50 Rabit > 2 g/kg Oral LD50 Rabit > 2 g/kg Oral LD50 Rat 490 mg/kg n-Heptame (CAS 142-82-5)	Hazardous Components of Complex Mixtures	Species	Test Results	
Demai > 2 g/kg LD50 Rabit > 2 g/kg LD50 Rat 490 mg/kg LD50 Rat 920 g/kg Active Inhalation Inhalation > 29.29 mg/l, 4 Hours 1000 mg/kg Active Inbox Rat > 29.29 mg/l, 4 Hours 1000 mg/kg Oral LD50 Rat > 29.29 mg/l, 4 Hours 1000 mg/kg n-Hexame(CAS 110-54-3) > 29.29 mg/l, 4 Hours 1000 mg/kg n-Hexame(CAS 110-54-3) Storos ever demagnetice 287100 mg/kg LD50 Rat 28710 mg/kg Solos ever demagnetice Direct contact with ever avuse temporary intlation 28710 mg/kg Solos ever demagnetize Direct contact with ever ever dever avuse temporary intlation 1000 mg/kg Respiratory sensitization No data expiratory sensitizet 1000 mg/kg Germ cell mutagenicity No data expiratory sensitizet 1000 mg/kg Mact Gorospholocyter Solos evert evert evert evert event evert event evert event	Naphthalene (CAS 91-20-3)			
LDSDRabbit> 2 g/kgOral490 mg/kgLDSDRat490 mg/kgn-Heptame (CAS 142-82-5)	Acute			
Oral LD50 Rat 490 mg/kg n-Heptane (CAS 142-82-5)				
LD50 Rat departed provide and set of the se	LD50	Rabbit	> 2 g/kg	
A-Heptane (CAS 142-82-5) Acute inhalation Vapor LCS0 Rat >29.29 mg/l, 4 Hours Vapor LCS0 Rat >29.29 mg/l, 4 Hours Vapor LCS0 Rat >29.29 mg/l, 4 Hours Vapor LDS0 Rat >20.00 mg/kg Rat UDS0 Rat 2000 mg/kg Rat Value Valu		D.(
Acute Inhalation Vapor LC50 Rat > 29.29 mg/l, 4 Hours Orai LD50 Rat > 5000 mg/kg n-Hexane (CAS 110-54-3) Rat 15000 mg/kg n-Hexane (CAS 110-54-3) Rat 28710 mg/kg Stin corrosion/irritation Causes skin irritation. 28710 mg/kg Strin corrosion/irritation Cause skin irritation. 28710 mg/kg Germ cell mutagenicity or skin sensitization Not a respiratory sensitizer. Strin ensitizer. Max Concographs. Oxeroll Evaluation of Carcinogenicity. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Max Cause data available to indicate product or any componencic to humans. No classified/seconcencic to humans. NPT Report on Carcinogenic to furname. Seconcencic to humans. No classified/seconcencic to humans. NPT Report o		Rat	490 mg/kg	
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Vapor LC550 Rat > 29.29 mg/l, 4 Hours Oral				
LC50Rat> 29.29 mg/l, 4 HoursOral LD50Rat15000 mg/kgn-Hexame (CAS 110-54-3)15000 mg/kgAcute Oral LD50Rat28710 mg/kgOral LD50Rat28710 mg/kgSkin corrosion/irritationCauses skin irritation.Serious eye damage/eye riritationDirect contact with eyes may cause temporary irritation.Respiratory ensitization Respiratory ensitizationNot a respiratory sensitization.Rodit a valiable to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.Not a respiratory sensitization.Roro coll inutagenicityNot a respiratory sensitization.Not a available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.Raf Monographs. Overall Evalution of Carcinogenic core Naphthalene (CAS 91-20-3)3 Not classifiable as carcinogenicity to humans. Rospiratory sensitizationNP Report on Carcinogens Naphthalene (CAS 91-20-3)28 Possibly carcinogenic to humans. Rospiratory sensitized.Responductive toxicity Not listed.Not classified.Responductive toxicity Not listed.May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.Specific target organ toxicity - Prolonged inhalation may be harmful. May cause at anage in ways.Reproductive toxicity Nor listed.May be fatal if swallowed and enters airways.Reproductive fifteraget organ toxicity - repeated exposure.Prolonge inhalation may be harmful. May cause at anage is organs through prolonged or repeated exposure.Reproductive toxicit				
Oral LD50 Rat 15000 mg/kg n-Hexane (CAS 110-54-3) Acute Coral 28710 mg/kg LD50 Rat 28710 mg/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation. Respiratory or skin sensitization Not a respiratory sensitization. Not a respiratory sensitization. Respiratory sensitization Not a respiratory sensitization. Not a available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity Suspected of causing cancer. IARC Monographs. Overall 28 Possibly carcinogenicity to humans. Naphthalene (CAS 91-20-3) 28 Possibly carcinogenic to humans. Sinseanably Anticipated to be a Human Carcinogen. Naphthalene (CAS 91-20-3) Known To Be Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen. Naphthalene (CAS 91-20-3) Not classified. Not classified. Reproductive toxicity Nis product is not expected to cause reproductive or developmental effects. Specific target organ toxicity - productive toxicity May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.		Rat	> 29.29 ma/l 4 Hours	
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LogRat28710 mg/kgSkin corrosion/irritationCauses skin irritation.Serious eye damage/eyeDirect contact with eyes may cause temporary irritation.Bespiratory or skin sensitizationNot a respiratory sensitizer.Respiratory sensitizationNot a respiratory sensitizer.Respiratory sensitizationNot at available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.GarcinogenicitySupected of causing cancer.Fuels, diesel, no.2 (CAS 6476-34-6)3 Not classifiable as to carcinogenicity to humans. Naphthalene (CAS 91-20-3)NPT Report on Carcinogens2B Possibly carcinogenic to humans. Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.Specific target organ toxicity or single exposureNot classified. Suscied.Specific target organ toxicity - single exposureMay cause damage to organs through prolonged or repeated exposure.Specific target organ toxicity - seposure dexposure.May be fatal if swallowed and enters ainways. <td>Acute</td> <td></td> <td></td>	Acute			
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-	Further information		skin.	
Ecotoxicity Toxic to aquatic life with long lasting effects.	12. Ecological information	ı		
	Ecotoxicity	Toxic to aquatic life with long	lasting effects.	

DIESEL FUELS

Components		Species	Test Results
Fuels, diesel, no. 2 (CAS 68476	6-34-6)		
Aquatic			
Acute			
Crustacea E	L50	Daphnia magna	68 mg/l, 48 hours
Fish Ll	L50	Oncorhynchus mykiss	65 mg/l, 96 hours
Hazardous Components of Co Mixtures	omplex	Species	Test Results
Octane (All isomers) (CAS 111-	-65-9)		
Aquatic			
Crustacea L	C50	Daphnia magna	0.38 mg/l, 48 hours
Naphthalene (CAS 91-20-3)			
Aquatic			
Acute			
Crustacea E	C50	Water flea (Daphnia magna)	1.09 - 3.4 mg/l, 48 hours
Fish L	C50	Pink salmon (Oncorhynchus gorbuscha)	0.95 - 1.62 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Acute			
Fish L	C50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
ersistence and degradability	Expected to be	e inherently biodegradable.	
• •	-	not bioaccumulating.	
•	No data availa	•	
-	Oil spills are o	enerally hazardous to the environment. Th	e product contains volatile organic
		nich have a photochemical ozone creation	
3. Disposal considerations	S		
	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.		
	Dispose in accordance with all applicable regulations.		
azardous waste code	D001: Waste Flammable material with a flash point <140 °F The waste code should be assigned in discussion between the user, the producer and the waste		
US RCRA Hazardous Waste L	disposal comp	•	
Naphthalene (CAS 91-20-3		U165	
/aste from residues / unused roducts	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).		
	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
4. Transport information			
OT			
	UN1202		
	Diesel Fuel		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group Environmental hazards	III		
	Yes		
Special precautions for user		structions, SDS and emergency procedure	es before handling.

DIESEL FUELS

913579 Version #: 06 Revison date: 30-June-2020 Print date: 30-June-2020 Prepared by 3E Company

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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. Toxic Substances Control Act (TSCA) Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes	SARA 304 Emergency re	elease notification	
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Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active". Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous	OSHA Specifically Regu	lated Substances (29	CFR 1910.1001-1053)
"active". Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes	Not listed.		
Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes	Toxic Substances Control Ac	ct (TSCA)	
SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes			
Not listed. SARA 311/312 Hazardous Yes	Superfund Amendments and Rea	authorization Act of 19	986 (SARA)
SARA 311/312 Hazardous Yes	SARA 302 Extremely hazard	ous substance	
	Not listed.		
chemical	SARA 311/312 Hazardous	Yes	
	chemical		

Classified hazard categories	Flammable (gases, aerosols, Acute toxicity (any route of ex Skin corrosion or irritation Carcinogenicity Specific target organ toxicity (Aspiration hazard Hazard not otherwise classifie	posure) single or repeated	d exposure)
SARA 313 (TRI reporting) Chemical name	CAS	number	% by wt.
Naphthalene		20-3	0 - 1
n-Hexane	110)-54-3	0 - 1
Other federal regulations			
Clean Air Act (CAA) Sectior	n 112 Hazardous Air Pollutants	ծ (HAPs) List	
Naphthalene (CAS 91-20 n-Hexane (CAS 110-54-3			
Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Pr	evention (40 CFF	R 68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Contains component(s) regula	ated under the Sat	fe Drinking Water Act.
US state regulations			
US. Massachusetts RTK - S	ubstance List		
Fuels, diesel, no. 2 (CAS Naphthalene (CAS 91-20 n-Heptane (CAS 142-82- n-Hexane (CAS 110-54-3 n-Nonane (CAS 111-84-2 Octane (All isomers) (CA US. Pennsylvania Worker at Fuels, diesel, no. 2 (CAS Hexane (Other isomers) Naphthalene (CAS 91-20 n-Heptane (CAS 142-82- n-Hexane (CAS 110-54-3 n-Nonane (CAS 111-84-2 Octane (All isomers) (CA US. Rhode Island RTK Naphthalene (CAS 91-20	9-3) 5) 8) 2) 8 111-65-9) 1 Community Right-to-Know A 68476-34-6) (-3) 5) 8) 2) S 111-65-9) nd Community Right-to-Know 68476-34-6) (CAS 96-14-0) 9-3) 5) 8) 2) S 111-65-9) 9-3)		
n-Heptane (CAS 142-82- n-Hexane (CAS 110-54-3 n-Nonane (CAS 111-84-2	3) 2)		
Octane (All isomers) (CA	(8-00-111 C		
Ca			Benzene, which is known to the State of reproductive harm. For more information go
California Proposition 6	65 - CRT: Listed date/Carcinog	enic substance	
Benzene (CAS 71-4		Listed: February	
Naphthalene (CAS 9 California Proposition 6	01-20-3) 65 - CRT: Listed date/Developi	Listed: April 19,	2002
Benzene (CAS 71-4)	=	Listed: Decemb	per 26 1997
Toluene (CAS 108-8		Listed: January	
	65 - CRT: Listed date/Male rep		
Benzene (CAS 71-4	3-2)	Listed: Decemb	per 26, 1997

n-Hexane (CAS 110-54-3) Listed: December 15, 2017 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Fuels, diesel, no. 2 (CAS 68476-34-6) Naphthalene (CAS 91-20-3) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) Octane (All isomers) (CAS 111-65-9)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances 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

Issue date	13-May-2013
Revision date	30-June-2020
Version #	06
NFPA ratings	
References	CONCAWE
Disclaimer	The information in this Safety Data Sheet (SDS) was obtained from sources believed to be reliable

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