SAFETY DATA SHEET





Revision Date 17-Dec-2018 SDS Number 888100004790 Revision Number 6.01

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Name Diesel Fuel #2 - Low Sulfur (LS) and Ultra Low Sulfur Diesel

(ULSD)

Synonyms None

Recommended Use Fuel
Uses advised against Fuel
All others

Manufacturer Emergency Chemtrec: 1-800-424-9300

Tesoro Refining & Marketing Co. <u>Telephone</u> Tesoro Call Center: 1-877-783-7676 19100 Ridgewood Parkway

San Antonio, TX 78259 <u>E-mail address</u> ProductStewardship@TSOCORP.com

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation Category	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2 Affected organs:
	thymus/liver/bone marrow
Chronic Aquatic Toxicity	Category 2
Aspiration toxicity	Category 1

Label elements

Danger

Flammable liquid and vapor

May be fatal if swallowed and enters airways

Suspected of causing cancer

Harmful if inhaled

May cause damage to thymus, liver and bone marrow through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects

Causes skin irritation

May accumulate electrostatic charge and ignite or explode.



Appearance Liquid

Physical State @20°C Liquid

Odor Characteristic petroleum or kerosene-like

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Avoid release to the environment

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/or bond container and receiving equipment

Use explosion-proof electrical/ ventilating / lighting / equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Get medical advice/attention if you feel unwell

If skin irritation occurs: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire: Use CO2, dry chemical, or foam for extinction

Collect spillage

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Keep cool

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Static accumulating flammable liquid

Other Information

Toxic to aquatic life.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Percent
Diesel Fuel	68476-34-6	0-100
Nonane	111-84-2	0-5

	Xylene	1330-20-7	0-2
Γ	1,2,4-Trimethylbenzene	95-63-6	0-2
Γ	Naphthalene	91-20-3	0-1

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.

In case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt, seek medical advice. Never give anything by mouth to an unconscious person. Take off all contaminated clothing immediately and

thoroughly wash material from skin. Immediate medical attention is required.

Inhalation Aspiration into lungs can produce severe lung damage. If breathing has stopped, give

artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed

pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical

advice/attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to

give mouth-to-mouth resuscitation. Avoid breathing vapors or mists.

Most important symptoms and effects, both acute and delayed

Symptoms Difficulty in breathing. Coughing and/ or wheezing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Because of the danger of aspiration, emesis or gastric lavage should not be employed

unless the risk is justified by the presence of additional toxic substances.

5. FIRE-FIGHTING MEASURES

Small Fire Any extinguisher suitable for Class B fires, dry chemical, CO2, foam (AFFF/ATC), or water

spray can be used.

Large Fire Water spray, fog or alcohol-resistant foam. CAUTION: Use of water spray when fighting fire

may be inefficient. Cool containers with flooding quantities of water until well after fire is out.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).

chemical Vapors may form explosive mixture with air. Vapors may travel to areas away from work

site before igniting/flashing back to vapor source. May accumulate electrostatic charge and

ignite or explode.

Hazardous combustion products Smoke, CO, and other products of incomplete combustion.

Explosion data

Sensitivity to Mechanical Impact None. **Sensitivity to Static Discharge** Yes.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible

withdraw from area and let fire burn.

Further information

ALWAYS stay away from tanks engulfed in fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Do not direct water at source of leak or safety devices; icing may occur. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

NFPA Health hazards 1 Flammability 2 Stability 0 Physical and chemical properties -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Avoid breathing

vapors or mists.

Other Information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal.

Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing

vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static

discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.

Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulator), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static initiated fire or explosion during transfer, storage or handling, include but are not limited to these examples: (1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquid and vapors that are static accumulators. (2) 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 or diesel) is loaded into tanks previously containing low flash point products (such as gasoline or naphtha). (3) Storage tank level floats must be effectively bonded. For more information on precautions to prevent static-initiated fire or explosion, see NFPA 77 Recommended Practice on Static Electricity and API Recommended Practice 2003 Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks". Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Diesel Fuel 68476-34-6	TWA: 100 mg/m³ total hydrocarbons inhalable fraction and vapor S*	-
Nonane 111-84-2	TWA: 200 ppm	(vacated) TWA: 200 ppm (vacated) TWA: 1050 mg/m ³
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m³ (vacated) STEL: 15 ppm

(vacated) STEL: 75 mg/m³

S* - Potential exposure by cutaneous route

NOTE: Limits shown for guidance only. For additional information, OSHA's 1989 air contaminants standard exposure limits provided even though the limits were vacated in 1992. State, local or other agencies or advisory groups may have established more stringent limits. Follow applicable regulations.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eve/face protection Use goggles or face-shield where there is a possibility of splashing.

Hand Protection Wear suitable gloves. Polyvinyl alcohol. Nitrile rubber. Neoprene gloves. Ensure that the

breakthrough time of the glove material is not exceeded. Refer to glove supplier for

information on breakthrough time for specific gloves.

Skin and body protection If there is a risk of contact:. Wear suitable protective clothing. Wear fire/flame

resistant/retardant clothing.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators. Use a NIOSH approved respirator when there is a potential for airborne concentrations to exceed occupational exposure limits. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2, NIOSH Respirator Decision Logic, and the respirator manufacturer for additional guidance on respiratory protection selection. A Self-Contained Breathing

Apparatus (SCBA) should be used for fire fighting. Use a NIOSH approved

positive-pressure supplied air respirator if there is a potential for uncontrolled release, exposure levels are unknown, in oxygen deficient (less than 19.5% oxygen), or any other circumstance where an air-purifying respirator may not provide adequate protection.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when

using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State @20°C Liquid Appearance Liquid

Odor Characteristic petroleum or kerosene-like Color Clear to straw , May contain Red Dye

Odor threshold 0.1 - 1 ppm

Property Values Remarks • Method

pH Not applicable
Melting point / freezing point -15 °C / 5 °F
Boiling range 154-372 °C
Flash point 52 °C / 125 °F
Evaporation rate No data available
Flammability (solid, gas) Not applicable

Flammability Limit in Air %

Upper flammability limit: 6.5
Lower flammability limit: 0.6
Vapor pressure < 2
Vapor density > 4.5

Relative density 0.86

Water solubility 0.0005 g/100 mL Solubility in other solvents No data available

Partition coefficient > 3.3

Autoignition temperature 257 °C / 495 °F **Decomposition temperature** No data available 1 to 6 mm2/s Kinematic viscosity No data available Dynamic viscosity **Explosive properties** No data available **Oxidizing properties** No data available Minimum Ignition Energy (mJ) No data available K st (bar.m/s) No data available Softening point No data available

VOC Content (%)

Density 6.76 lbs/gal
Bulk density Not applicable

Conductivity Diesel Fuel Oils at terminal load rack: At least 25 pS/m. Ultra Low Sulfur Diesel (ULSD)

without conductivity additive: 0 pS/m to 5 pS/m. ULSD at terminal load rack with

conductivity additive: At least 50 pS/m. JP-8 at terminal load rack: 150 pS/m to 600 pS/m.

10. STABILITY AND REACTIVITY

Reactivity This product is non-reactive under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid Heat, flames and sparks. Excessive heat.

Incompatible materials Oxidizing or reducing agents. Acids. Alkali.

Hazardous decomposition products None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Aerosol expected to be irritating based on components. May cause central nervous system

depression with nausea, headache, dizziness, vomiting, and incoordination. Aspiration into lungs can produce severe lung damage. Intentional misuse by deliberately concentrating

and inhaling contents may be harmful or fatal.

Eye contact Liquid splashed in the eyes may cause irritation and reversible damage.

Skin contact Causes skin irritation.

Ingestion Aspiration may cause pulmonary edema and pneumonitis. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness,

tiredness, nausea and vomiting.

Numerical measures of toxicity

Acute toxicity

Chemical Name	Oral LD50	LD50/dermal/rat - NO UNITS	Inhalation LC50

		(Wizards mg/kg)	
Nonane 111-84-2	-	-	= 3200 ppm (Rat) 4 h
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 1700 mg/kg (Rabbit) > 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Naphthalene 91-20-3	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	= 1120 mg/kg(Rabbit)> 20 g/kg(Rabbit)	> 340 mg/m³ (Rat)1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical Name

Nonane may be fatal if it is swallowed and enters the airway. Nonane affects the eyes, skin, respiratory system, and central nervous system. If inhaled, short-term overexposure can cause drowsiness, dizziness, and possibly death. Exposure to high enough levels of nonane can cause irritation to eyes, nose, and skin (including dermatitis). Sensitization is not reported.

Xylene

Mixed xylenes can cause skin, eye, and respiratory irritation. Both short- and long-term repeated exposures to high enough levels in humans have resulted in a variety of adverse nervous system effects that include headache, mental confusion, narcosis, equilibrium, impaired short-term memory, dizziness and tremors. Studies in laboratory animals indicate that xylene can cause changes in the liver and harmful effects on the kidneys, lungs, heart, and nervous system as well as hearing loss. The relevance of these observations to humans is not clear at this time. In general, developmental studies in animals reported adverse fetal effects only at concentrations that caused maternal toxicity. The relevance of these observations to humans is unclear at this time. The available data from in vitro and in vivo studies suggest that xylenes are not mutagenic and do not produce chromosomal abnormalities. Furthermore, rats exposed up to 500 mg/kg bw and mice exposed up to 1000 mg/kg bw mixed xylenes for 103 weeks showed no treatment-related increases in any tumor type. IARC has determined that the carcinogenicity of xylenes is not classifiable (Group 3).

1,2,4-Trimethylbenzene

1,2,4-Trimethylbenzene may be fatal if it is swallowed and enters airways. Overexposure through inhalation and ingestion can cause confusion, dizziness, drowsiness, headache, and vomiting, cough, and sore throat. Short-term exposure to high enough levels through inhalation may cause respiratory irritation, and long-term overexposure may cause asthmatic bronchitis. Contact with skin can cause irritation, redness and dry skin. Contact with eyes can cause serious eye irritation, redness, and pain.

Naphthalene

Acute (short term) exposure to large amounts of naphthalene may damage or destroy red blood cells, a condition termed hemolytic anemia. Symptoms of hemolytic anemia include fatigue, lack of appetite, restlessness, and pale skin. Acute inhalation or oral exposure to large amounts of naphthalene may also cause nausea, vomiting, diarrhea, blood in the urine, and a yellow color to the skin. Ingestion may result in death. Chronic (long term) exposure in rats and mice can lead to irritation and inflammation of their nose and lungs; nasal hyperplasia and metaplasia in respiratory and olfactory epithelium has been reported in studies in mice. Exposure to high enough levels may have effects on the blood, resulting in chronic hemolytic anemia, and effects on the eyes, resulting in the development of cataracts. Cancer from naphthalene exposure has been observed in animals, but not humans. IARC has classified naphthalene as possibly carcinogenic to humans (Group 2B), and the ECHA C&L Inventory reports that naphthalene is suspected of causing cancer (Carc. 2).

Health hazard and classification information

Skin Corrosion/Irritation Category Studies indicate substance can cause skin irritation (API, 1980a; API. 1980b).

Serious eye damage/eye irritation Studies indicate substance is not irritating to eye (API, 1980a; API 1980b).

Germ cell mutagenicity In vitro studies were ambiguous, while in vivo studies showed lack of mutagenic activity

(Deininger, G, et al, 1991; McKee, RH et al, 1994; API, 1985).

Carcinogenicity Classification based on data available for ingredients. Contains a known or suspected

carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Diesel Fuel	A3	Group 3	-	-
68476-34-6				
Xylene	-	Group 3	-	-
1330-20-7				
Naphthalene	A3	Group 2B	Reasonably Anticipated	Χ
91-20-3				

Reproductive toxicity No information available.

Target Organ Systemic Toxicant -

Single Exposure

Exposure studies do not indicate specific organ toxicity, following single exposure (API,

1980a; API, 1980b; ARCO 1988).

Target Organ Systemic Toxicant -

Repeated Exposure

Following 13-week dermal exposure, changes to thymus, liver, and bone marrow were

noted (Concawe).

Target organ effects Thymus, bone marrow, liver.

Aspiration hazard Substances span a range of viscosities (values reported as greater or equal to 1.5mm^2/s

at 40C (Concawe).

12. ECOLOGICAL INFORMATION

Additional Ecological Information Release of this product should be prevented from contaminating soil and water and from

entering drainage and sewer systems. U.S.A. regulations require reporting spills of this material that could reach any surface waters. The toll free number to the U.S. Coast Guard

National Response Center is (800) 424-8802

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Diesel Fuel	-	35: 96 h Pimephales	-	-
68476-34-6		promelas mg/L LC50		
		flow-through		
Xylene	-	13.4: 96 h Pimephales	-	0.6: 48 h Gammarus
1330-20-7		promelas mg/L LC50		lacustris mg/L LC50 3.82:
		flow-through 780: 96 h		48 h water flea mg/L
		Cyprinus carpio mg/L		EC50
		LC50 semi-static 780: 96		
		h Cyprinus carpio mg/L		
		LC50 13.5 - 17.3: 96 h		
		Oncorhynchus mykiss		
		mg/L LC50 19: 96 h		
		Lepomis macrochirus		
		mg/L LC50 13.1 - 16.5:		
		96 h Lepomis		
		macrochirus mg/L LC50		
		flow-through 23.53 -		
		29.97: 96 h Pimephales		
		promelas mg/L LC50		
		static 30.26 - 40.75: 96 h		
		Poecilia reticulata mg/L		
		LC50 static 2.661 -		

		,		
		4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 7.711 -		
		9.591: 96 h Lepomis		
		macrochirus mg/L LC50		
		static		
1,2,4-Trimethylbenzene	-	7.19 - 8.28: 96 h	-	6.14: 48 h Daphnia
95-63-6		Pimephales promelas		magna mg/L EC50
		mg/L LC50 flow-through		
Naphthalene	0.4: 72 h Skeletonema	5.74 - 6.44: 96 h	-	1.96: 48 h Daphnia
91-20-3	costatum mg/L EC50	Pimephales promelas		magna mg/L EC50 Flow
		mg/L LC50 flow-through		through 1.09 - 3.4: 48 h
		31.0265: 96 h Lepomis		Daphnia magna mg/L
		macrochirus mg/L LC50		EC50 Static 2.16: 48 h
		static 0.91 - 2.82: 96 h		Daphnia magna mg/L
		Oncorhynchus mykiss		LC50
		mg/L LC50 static 1.6: 96		
		h Oncorhynchus mykiss		
		mg/L LC50 flow-through		
		1.99: 96 h Pimephales		
		promelas mg/L LC50		
		static		

Persistence and degradability

Expected or known properties indicate substance is not readily biodegradable, but

inherently biodegradable (Concawe).

Bioaccumulation

Constituents are predicted to bio-accumulate (Concawe).

Component Information

Chemical Name	Partition coefficient
Xylene 1330-20-7	2.77 - 3.15
1,2,4-Trimethylbenzene 95-63-6	3.63
Naphthalene 91-20-3	3.6

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Xylene	-	Included in waste stream:	-	U239
1330-20-7		F039		
Naphthalene	U165	Included in waste	-	U165
91-20-3		streams: F024, F025,		
		F034, F039, K001, K035,		
		K060 K087 K145		

Chai	mical Name	PCPA - Halogenated	RCRA - P Series Wastes	PCPA - F Series Wastes	PCPA - K Sorios Wastes
Cilei	illicai ivallie	NONA - Halogerialeu	INCINA - I Delles Wasies	INCINA - I Delles Wasies	INDINA - IN Delles Wasies
		Organic Compounds			

Naphthalene	-	-	Toxic waste	-
91-20-3			waste number F025	
			Waste description:	
			Condensed light ends,	
			spent filters and filter	
			aids, and spent desiccant	
			wastes from the	
			production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free	
			radical catalyzed	
			processes. These	
			chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain	
			lengths ranging from one	
			to and including five, with	
			varying amounts and	
			positions of chlorine	
			substitution.	

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status	
Xylene	Toxic	
1330-20-7	Ignitable	
Naphthalene	Toxic	
91-20-3		

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1202/NA1993
Proper Shipping Name Diesel fuel

Hazard Class 3
Packing group III

Reportable Quantity (RQ) (Naphthalene: RQ (kg)= 45.40, Xylenes (mixed isomers): RQ (kg)= 45.40)

Special Provisions 144, B1, IB3, T2, TP1
Description UN1202, DIESEL FUEL, III

Emergency Response Guide 128

Number

TDG

UN/ID no UN1202 Proper Shipping Name Diesel fuel

Hazard Class 3
Packing group III

Description UN1202, DIESEL FUEL, III

MEX

UN/ID no UN1202 Proper Shipping Name GAS OIL Hazard Class 3

Hazard Class 3
Packing group III

Description UN1202, GAS OIL, III

IATA

UN/ID no UN1202
Proper Shipping Name Diesel fuel

Hazard Class Packing group Ш **ERG Code** 3L

Description UN1202, DIESEL FUEL, III

IMDG

UN1202 UN/ID no **Proper Shipping Name GAS OIL Hazard Class** Packing group Ш EmS No. F-E, S-E

Special Provisions 363

Description UN1202, GAS OIL, III, (38°C c.c.)

15. REGULATORY INFORMATION

International Inventories

TSCA Listed **DSL/NDSL** Listed **ENCS** Not Listed **IECSC** Listed **KECL** Listed **PICCS** Listed **AICS** Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** Yes Fire hazard Yes Sudden release of pressure hazard No **Reactive Hazard** No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene 1330-20-7	100 lb	-	-	Х
Naphthalene 91-20-3	100 lb	X	X	Х

CERCLA

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such

from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Naphthalene - 91-20-3	Carcinogen	

U.S. State Right-to-Know Regulations

US State Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nonane 111-84-2	X	X	Х
Xylene 1330-20-7	-	-	Х
1,2,4-Trimethylbenzene 95-63-6	Х	X	Х
Naphthalene 91-20-3	X	X	Х

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Revision Date 17-Dec-2018

Revision Note No information available.

Disclaimer

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304, 1187, 1242, 1250, 1291, 1380, 1408, 1412, 1510, 1670, 1859, 1900, 1904, 1921, 1922, 1923, 1924, 1451

End of Safety Data Sheet