

Safety Data Sheet According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Revision Date: 01/25/2022 Date of issue: 12/30/2014

Version: 2.0

#### **SECTION 1: IDENTIFICATION**

#### 1.1. **Product Identifier**

Product Form: Mixture

Product Name: Crude Oil

1.2. **Intended Use of the Product** 

Use of the substance/mixture: Refining into Fuels

#### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Countrymark Refining and Logistics, LLC 1200 Refinery Road 47620 Mt. Vernon, Indiana T (812) 838-8165 Countrymark.com

#### 1.4. **Emergency Telephone Number**

: Countrymark: (812) 838-8165 (CHEMTREC) (800) 424-9300

## **SECTION 2: HAZARDS IDENTIFICATION**

#### **Classification of the Substance or Mixture** 2.1.

#### Classification (GHS-US)

**Emergency Number** 

Flam. Liq. 1	H224
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Muta. 1B	H340
Carc. 1A	H350
Repr. 2	H361
STOT SE 3	H336
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Acute 2	H401
Aquatic Chronic 2	H411
Full text of H-phrases: see	section 16

#### Label Elements 2.2.

Signal Word (GHS-US) Hazard Statements (GHS-US)

#### **GHS-US** Labeling

Hazard Pictograms (GHS-US)

**Precautionary Statements (GHS-US)** 

			¥
GHS02	GHS07	GHS08	GHS0
: Danger : H224 - Extrem	ely flammable	liquid and va	oor.

- H304 May be fatal if swallowed and enters airways.

  - H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- : P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, lighting, ventilating equipment.
- P242 Use only non-sparking tools.

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> P243 - Take precautionary measures against static discharge. P260 - Do not breathe mist, spray, vapors, fume. P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see Section 4). P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), dry extinguishing powder to extinguish. P391 - Collect spillage. P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Exposure may aggravate individuals with preexisting kidney, liver, and pulmonary disorders. Flammable vapors can accumulate in head space of closed systems. All crudes contain varying amounts of sulfur, this product has low sulfur content. Contains a small amount of Hydrogen Sulfide, symptoms of overexposure are headaches, dizziness, nausea, coughing, respiratory irritation, eye irritation, skin irritation, pain in the nose, and loss of consciousness. Heating of the product may release higher amounts of Hydrogen Sulfide (H<sub>2</sub>S).

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

#### Not applicable

### 3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Petroleum	(CAS No) 8002-05-9	95 - 99	Flam. Liq. 1, H224
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Carc. 1B, H350
			STOT SE 3, H336
			STOT RE 2, H373
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411

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Toluene	(CAS No) 108-88-3	0 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	0 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 2, H401
Benzene	(CAS No) 71-43-2	0 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Ethylbenzene	(CAS No) 100-41-4	0 - 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 Eye Irrit. 2B, H320 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Cyclohexane	(CAS No) 110-82-7	0 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 1, H410
Hydrogen sulfide	(CAS No) 7783-06-4	0 - 0.001	Flam. Gas 1, H220 Liquefied gas, H280 Acute Tox. 2 (Inhalation:gas), H330 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400

#### Full text of H-phrases: see section 16 SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General**: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

**First-aid Measures After Inhalation**: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid Measures After Skin Contact**: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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**First-aid Measures After Eye Contact**: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion**: Rinse mouth. DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** May cause damage to organs through prolonged or repeated exposure. May cause genetic defects. Suspected of damaging fertility or the unborn child. May cause cancer. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. Aspiration hazard.

**Symptoms/Injuries After Inhalation:** Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

**WARNING:** The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. May be absorbed through the skin in toxic amounts if large areas of skin are exposed.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. In severe cases, tremors, convulsions, loss of conciousness, coma, respiratory arrest, and death may occur.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure. May cause genetic defects. Suspected of damaging fertility or the unborn child. May cause cancer. Contains benzene, a regulated human carcinogen. Benzene has the potential to cause anemia and other blood diseases, including leukemia, after repeated and prolonged exposure. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with systemic toxicity. See also Section 11 – Toxicological Information.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

### Suitable Extinguishing Media:

FOR SMALL FIRES: Use fire extinguisher with class B rating, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed containers cool.

FOR LARGE FIRES: Water spray, fog, alcohol resistant foam. Water may be ineffective but water should be used to keep fireexposed containers cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Extremely flammable liquid and vapor. Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Runoff to sewer may cause fire or explosion hazard. **Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Small fires in the incipient stage may typically be extinguished using handheld portable fire extinguishers and other firefighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke, or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full face piece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish fire, often including the need for properly applied firefighting foam. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. **Other Information:** Use water spray to disperse vapors. Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures**: Remove ignition sources. Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing (vapor, mist, spray). Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Do not allow product to spread to environment.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel, isolate, and ventilate area. Eliminate ignition sources. Stop leak if safe to do so.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Eliminate all ignition sources. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Spills may infiltrate susburface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see section 8). Notify authorities if product enters sewers or public waters. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Do not pressurize, cut, or weld containers. Flammable vapors may accumulate in the head space of closed systems. Container may remain hazardous when empty. Contains a small amount of hydrogen sulfide. Hydrogen sulfide is a fatal and highly flammable gas with a rotten egg odor that quickly causes odor fatigue. Heating of this product and storage under elevated temperatures or over long periods of time may release higher amounts of hydrogen sulfide. Hydrogen sulfide is also an asphyxiant.

**Precautions for Safe Handling:** Do not handle until all safety precautions have been read and understood. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, vapors. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).

**Naturally Occurring Radioactive Material (NORM):** Industry experience indicates this material may contain small amounts of naturally-occuring uranium, thorium, and their decay products (NORM) which can accumulate in oil production and process equipment, particularly the equipment handling the water associated with crude oil production.

Production equipment should be assessed for external gamma radiation and access may need to be restricted in accordance with OSHA 29 CFR 1910.1096 during operation.

Production equipment should also be assumed to be internally contaminated with long half-life decay products that emit alpha radiation, which is a hazard if inhaled or ingested. Unless measurements indicate otherwise, steps should be taken to minimize skin and inhalation risk exposure to NORM dusts/mists by wearing personal protective clothing, utilizing respiratory protection, and practicing good personal hygiene. Please refer to API Bulletin E2, "Bulletin on Management of Naturally Occuring Radioactive Materials in Oil and Gas Production" for additional information on managing NORM. Scales, sludge and other deposits from this equipment may have an accumulation of NORM.

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**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling. Do not eat, drink or smoke when using this product. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Ground/bond container and receiving equipment. Use explosion-proof electrical, lighting, ventilating equipment. Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. 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. Keep in fireproof place. Store locked up.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s) Refining into Fuels

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Petroleum (8	002-05-9)		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	350 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m³ (15 min)	
USA IDLH	US IDLH (ppm)	1100 ppm (10% LEL)	
Toluene (108	3-88-3)		
USA ACGIH	ACGIH TWA (ppm)	20 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm	
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	560 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm	
USA IDLH	US IDLH (ppm)	500 ppm	
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm	
Xylenes (o-, r	n-, p- isomers) (1330-20-7)		
USA ACGIH	ACGIH TWA (ppm)	100 ppm	
USA ACGIH	ACGIH STEL (ppm)	150 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	
Benzene (71-	43-2)	-	
USA ACGIH	ACGIH TWA (ppm)	0.5 ppm	
USA ACGIH	ACGIH STEL (ppm)	2.5 ppm	
USA NIOSH	NIOSH REL (TWA) (ppm)	0.1 ppm	
USA NIOSH	NIOSH REL (STEL) (ppm)	1 ppm	
USA IDLH	US IDLH (ppm)	500 ppm	
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
		1 ppm	
USA OSHA	OSHA PEL (STEL) (ppm)	5 ppm (see 29 CFR 1910.1028)	
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm	
Ethylbenzene (100-41-4)			
USA ACGIH	ACGIH TWA (ppm)	20 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>	
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm	
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	545 mg/m <sup>3</sup>	

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		125 nnm
USA NIUSH		123 ppm
USA IDLH	US IDLH (ppm)	800 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Cyclohexane	(110-82-7)	
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	300 ppm
USA IDLH	US IDLH (ppm)	1300 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	300 ppm
Hydrogen su	fide (7783-06-4)	
USA ACGIH	ACGIH TWA (ppm)	1 ppm
USA ACGIH	ACGIH STEL (ppm)	5 ppm
USA NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (ceiling) (ppm)	10 ppm
USA IDLH	US IDLH (ppm)	100 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	20 ppm

### 8.2. Exposure Controls

Appropriate Engineering Controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases/vapors may be released. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Ensure all national/local
Personal Protective Equipment	regulations are observed. Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
Materials for Protective Clothing	: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing
Hand Protection	· Wear chemically resistant protective gloves
Eve Protection	: Chemical safety goggles.
Skin and Body Protection	: Wear suitable protective clothing.
Respiratory Protection	: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.
Other Information	: When using, do not eat, drink or smoke.
<b>SECTION 9: PHYSICAL AND CHEMI</b>	CAL PROPERTIES
9.1. Information on Basic Physica	al and Chemical Properties
Physical State	: Liquid
Appearance	: Dark brown, black, greenish-brown, greenish-flourescent
Odor	: Heavy petroleum odor. May have rotten egg odor due to H <sub>2</sub> S content
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: <0->404 °C (<32->760 °F)
Flash Point	: < 27 °C (< 80 °F)

: No data available

: No data available

**Auto-ignition Temperature** 

**Decomposition Temperature** 

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Flammability (solid, gas)	: No data available
Vapor Pressure (mm Hg) @ 60 °F	: < 500
Relative Vapor Density at 20 °C	: No data available
Specific Gravity @ 60 °F	: 0.80 – 0.90 (water=1)
Solubility	: Insoluble
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: < 50 SUS (at 100 °F)
Percent Volatile by Volume (%)	: Varies with different crudes
9.2. Other Information	

VOC Content

## : Varies with different crudes

SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.

**10.2.** Chemical Stability: Extremely flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

**10.4.** Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition.

10.5. Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

**10.6.** Hazardous Decomposition Products: May release flammable gases. Carbon oxides (CO, CO<sub>2</sub>). Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently. Upon thermal decomposition: Hydrocarbons. Black smoke.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Petroleum (8002-05-9)		
LD50 Dermal Rabbit	> 2000 mg/kg	
Toluene (108-88-3)		
LD50 Oral Rat	5580 mg/kg	
LD50 Dermal Rabbit	12000 mg/kg	
ATE (Vapors)	25.70 mg/l/4h	
Xylenes (o-, m-, p- isomers) (1330-20-7)		
LD50 Oral Rat	> 5000 mg/kg	
LC50 Inhalation Rat	6247 ppm/4h (species: Sprague-Dawley)	
ATE (Dermal)	1,100.00 mg/kg body weight	
ATE (Vapors)	11.00 mg/l/4h	
Benzene (71-43-2)		
LD50 Oral Rat	3306 mg/kg	
LD50 Dermal Rabbit	> 8200 mg/kg	
LC50 Inhalation Rat	44.66 mg/l/4h	
Ethylbenzene (100-41-4)		
LD50 Oral Rat	3500 mg/kg	
LD50 Dermal Rabbit	15400 mg/kg	
LC50 Inhalation Rat	17.2 mg/l/4h (Exposure time: 4 h)	
Cyclohexane (110-82-7)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	
LC50 Inhalation Rat	13.9 mg/l/4h	
Hydrogen sulfide (7783-06-4)		
LC50 Inhalation Rat	0.99 mg/l (Exposure time: 1 h)	
LC50 Inhalation Rat	444 ppm/4h	

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: May cause genetic defects.

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Carcinogenicity: May cause cancer.	
Petroleum (8002-05-9)	
IARC group	3
Toluene (108-88-3)	
IARC group	3
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3
Benzene (71-43-2)	
IARC group	1
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Known Human Carcinogens.
Ethylbenzene (100-41-4)	
IARC group	2B

 National Toxicology Program (NTP) Status
 Evidence of Carcinogenicity.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs through prolonged or repeated exposure.

**Symptoms/Injuries After Inhalation:** Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

**WARNING:** The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Redness, pain, swelling, itching, burning, dryness, and dermatitis. May be absorbed through the skin in toxic amounts if large areas of skin are exposed.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. In severe cases, tremors, convulsions, loss of conciousness, coma, respiratory arrest, and death may occur.

**Chronic Symptoms:** May cause damage to organs through prolonged or repeated exposure. May cause genetic defects. Suspected of damaging fertility or the unborn child. May cause cancer. Contains benzene, a regulated human carcinogen. Benzene has the potential to cause anemia and other blood diseases, including leukemia, after repeated and prolonged exposure. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with systemic toxicity. See also Section 11 – Toxicological Information.

#### **SECTION 12: ECOLOGICAL INFORMATION** 12.1. Toxicity : Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Ecology - General Petroleum (8002-05-9) < 7.1 mg/l (Species: Pimephales promelas, Exposure time 96 h) LC50 Fish 1 LC50 other aquatic organisms 1 2.7 mg/l LL50 96 hr (Kelp forest mysid shrimp) EC50 Daphnia 1 6.9 mg/l (Exposure time: 48 h) Toluene (108-88-3) LC50 Fish 1 15.22 (15.22 - 19.05) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) 5.46 (5.46 - 9.83) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) EC50 Daphnia 1 LC 50 Fish 2 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) EC50 Daphnia 2 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna) 0.74 mg/l (Ceriodaphnia dubia) **NOEC chronic crustacea** Xylenes (o-, m-, p- isomers) (1330-20-7) LC50 Fish 1 3.3 mg/l EC50 Daphnia 1 3.82 mg/l (Exposure time: 48 h - Species: water flea) LC 50 Fish 2 2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Coordination       10.7 : 14.7 mg/l (Exposure time: 48 h - Species: Pimephales promelas (flow-through))         ECSO Fish 1       8.76 : 13.6 mg/l (Exposure time: 48 h - Species: Daphnia magna) (status)         ECSO Fish 2       10 mg/l (Exposure time: 48 h - Species: Daphnia magna)         EtSO Fish 1       11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Daphnia magna)         EtSO Daphnia 2       11.0 mg/l (Exposure time: 96 h - Species: Daphnia magna)         EtSO Daphnia 1       13.8 - 2.4 mg/l (Exposure time: 96 h - Species: Daphnia magna)         EtSO Daphnia 1       13.8 - 2.4 mg/l (Exposure time: 96 h - Species: Daphnia magna)         EtSO Daphnia 1       23.03 - 42.0 7 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])         EtSO Fish 1       3.96 - 5.13 mg/l (Exposure time: 96 h - Species: Daphnia magna)         ILESO Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Dapmehales promelas [flow-through])         ILESO Fish 2       0.0448 mg/l (Exposure time: 96 h - Species: Dapmehales promelas [flow-through])         ILESO Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Dapmehales promelas [flow-through])         ILESO Fish 2       0.048 mg/l (Exposure time: 96 h - Species: Dapmia magna)         ILESO Fish 3       0.046 mg/l (Exposure time: 96 h - Species: Dapmia magna)         ILESO Fish 1       0.64 (0.6 - 15)         ILESO Fish 1       0.64 (0.6 - 15)         ILESO Fish 1 <td< th=""><th>Benzene (71-43-2)</th><th></th></td<>	Benzene (71-43-2)				
1.001.1         2.05         4.07	1C50 Fish 1	10.7 - 14.7 mg/l (Exposure time: 96 h - Species: Pimenhales prometas [flow-through])			
LCS 01 Fib 12         5.3 mg/l (Exposure time: 96 h - Species: Oncorthynchus mykiss [flow-through])           LCS 01 Fib 12         10 mg/l (Exposure time: 96 h - Species: Oncorthynchus mykiss [static])           LCS 01 Fib 1         11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorthynchus mykiss [static])           LCS 01 Fib 1         1.0 - 2.4 mg/l (Exposure time: 96 h - Species: Oncorthynchus mykiss [static])           LCS 01 Fib 1         1.8 - 2.4 mg/l (Exposure time: 96 h - Species: Dimephales promelas [flow-through])           LCS 01 Fib 1         3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 1         3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 1         0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 1         0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 2         0.016 mg/l [Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 2         0.016 mg/l [Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 2         0.016 mg/l [Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 2         0.016 mg/l [Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 01 Fib 1         0.61 (0.6 - 15)           Log Pow         2.65	EC50 Danhnia 1	8 76 - 15 6 mg/l (Exposure time: 48 h - Species: Danhnia magna [Static])			
LC 50 Tin L         10 mg/L Exposure time: 48 h - Species: Daphna mgna)           Ethylbenzene (100-41-4)         11.0 - 18.0 mg/L (Exposure time: 48 h - Species: Daphna mgna)           Ethylbenzene (100-41-4)         11.0 - 18.0 mg/L (Exposure time: 48 h - Species: Daphna mgna)           Ethylbenzene (100-41-4)         11.0 - 18.0 mg/L (Exposure time: 48 h - Species: Daphna mgna)           ECS 0 Taphna 1         1.8 - 2.4 mg/L (Exposure time: 96 h - Species: Daphna mgna)           LCS 0 Fish 2         4.2 mg/L (Exposure time: 96 h - Species: Daphna mgna)           LCS 0 Fish 2         10.0 4.2 mg/L (Exposure time: 96 h - Species: Daphna mgna)           LCS 0 Fish 2         0.043 mg/L (Exposure time: 96 h - Species: Daphna mgna)           LCS 0 Fish 2         0.016 mg/L (Exposure time: 96 h - Species: Pimephales promelas [static])           LCS 0 Fish 2         0.016 mg/L (Exposure time: 96 h - Species: Pimephales promelas [static])           LCS 0 Fish 2         0.016 mg/L (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 2         0.016 mg/L (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 3         0.016 mg/L (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.048 mg/L (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.045 mg/L (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	LC 50 Fish 2	5.3 mg/l (Exposure time: 96 h - Species: Oncorbynchus mykiss [flow-through])			
LCS 0 Fish 1         1.0 - 18.0 mg/ (Exposure time: 96 h - Species: Oncorrhynchus mykiss [static])           LCS 0 Fish 1         1.1.0 - 18.0 mg/ (Exposure time: 96 h - Species: Data magna)           LCS 0 Daphnia 1         1.8 - 2.4 mg/l (Exposure time: 96 h - Species: Data magna)           LCS 0 Fish 2         4.2 mg/l (Exposure time: 96 h - Species: Data magna)           LCS 0 Fish 1         3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.0443 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.0443 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 2         0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 3         0.0443 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 3         0.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 3         0.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 3         0.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.05 (0.05 - Species: Pimephales promelas [flow-through])           LCS 0 Fish 1         0.05 (0.05 - Species: Pimephales p	EC 50 Fish 2 EC 50 Danhnia 2	50 Danhnia 2 10 mg/l (Exposure time: 48 h - Species: Danhnia magna)			
Linybertzele (100-41-47)         11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])           LCS0 Fish 1         1.8 - 2.4 mg/l (Exposure time: 96 h - Species: Daphnia magna)           LCS0 Fish 2         4.2 mg/l (Exposure time: 96 h - Species: Daphnia magna)           LCS0 Fish 2         2.3 G - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 2         2.3 G - 4.2 O'' mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 2         0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 2         0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.6448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.616 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.616 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.616 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1         0.616 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])           LCS0 Fish 1 <th></th> <th></th>					
LLS0 Fish 1       11.0F - 18.0 mg/ (Exposure time: 48 h - Species: Diruchiy must system)         LCS0 Daphnia 1       1.8 - 2.4 mg/ (Exposure time: 48 h - Species: Chronthynchus mykiss [semi-static])         LCS0 Fish 2       4.2 mg/l (Exposure time: 96 h - Species: Diruchynchus mykiss [semi-static])         LCS0 Fish 1       3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         Hydrogen sulfide (7783-06-4)       0.016 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])         LCS0 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.645 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.045 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.045 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LCS0 Fish 1       0.05 (0.6 - 15)         Lcg Pow       2.65         Xydrens (or, m, p- isomers) (1330-20-7) </th <th>Ethylbenzene (100-41-4)</th> <th>11.0.18.0 mg/l/[superior times 06 h. Species: Opershupphus mukics [statia])</th>	Ethylbenzene (100-41-4)	11.0.18.0 mg/l/[superior times 06 h. Species: Opershupphus mukics [statia])			
LS Jophma 1       1.6 * 2.4 mg/ (Exposure time: 96 h - Species: Durphila Inging)         LS Jo Fish 2       4.2 mg/ (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 2       23.03 + 42.07 mg/ (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 1       3.96 - 5.18 mg/ (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 3       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 3       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 3       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 4       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 3       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LS O Fish 4       0.5 (0.6 - 15)       0.6	LC50 Fish 1	11.0 - 18.0 mg/l (Exposure time: 96 h - Species: Oncornynchus mykiss [static])			
LC 30 Yin 2       14.2 Ing/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 1       3.96 - 5.18 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       23.03 - 42.07 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 1       0.0448 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/1 (Exposure time: 96 h - Species: Leponis macrochirus [flow-through])         LC 50 Fish 3       0.016 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 7 Fish 1       0.048 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 80 Fish 3       0.048 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 9 Fish 4       0.016 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 9 Fish 3       0.048 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 9 Fish 4       0.016 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 9 Fish 1       0.45 mg/1 (Exposure time: 96 h - Species: Pimephales promelas [flow-through]         Log Pow       2.65         Xylenes (e., m, p-isomers) (130-20-7)       0.66 (0.6 - 15)         Log Pow <th></th> <th>1.8 - 2.4 mg/l (Exposure time: 48 n - Species: Daprinia magna)</th>		1.8 - 2.4 mg/l (Exposure time: 48 n - Species: Daprinia magna)			
Lyzionexane (110-82-7)       3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC50 Fish 1       3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         Hydrogen suffice (7783-06-4)       U.C150 Fish 1         LC50 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC50 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC50 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         L22. Persistence and Degradability       Not established.         Persistence and Degradability       Not established.         Crude Oil       Boaccumulative Potential         Crude Oil       Boaccumulative Potential         Log Pow       2.65         Xylenes (or, m-, p- isomers) (1330-20-7)       BCF fish 1         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1         Log Pow       3.44         Hydrogen suffice (7783-06-4)       BCF fish 1         Log Pow       3.44         Hydrogen suffice (7783-06-4)       BCF fish 1         L24. Mobility In Soil No additional information available		4.2 mg/1 (exposure time: 96 n - Species: Oncomynchus mykiss [semi-static])			
LL3D Fish 1       3.36 - 5.18 mg/l (Exposure time: 96 h - Species: Himephales promelas [flow-through])         LC5D Fish 2       23.03 - 42.07 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC5D Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC5 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC5 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         L2. Persistence and Degradability       Not established.         Crude Oil       Persistence and Degradability         Persistence and Degradability       Not established.         Toluene (108-88-3)       Image: Comparison of the stablished.         Log Pow       2.65         Xylenes (or, m., p- isomers) (1330-20-7)       EC fish 1         Benzene (71-43-2)       EC fish 1         Benzene (71-43-2)       EC fish 1         Deg Pow       3.13         Ethylbenzene (100-41-4)       EC fish 1         Cyclohexane (110-82-7)       Image: Comparison of the stable of the comparison ovailable         L3.       Ohol additional information available         L3.       Ohol additional information available         L3.       Ohol additional information available         L3.       Ohol additional information	Cyclonexane (110-82-7)				
LL 30 Hsh 2       [23:03-42.07 mg/l (sposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 70 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 80 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 70 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 80 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 80 Fish 1       0.16 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 80 Fish 1       0.16 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 90 W       2.65         Xylenes (0 m, p-Isomers) (1330-20-7)       Exposure time: 96 h - Species: Pimephales promelas [flow + 1.83         Ethylenzene (100-41-4)       Exposure time: 96 h - Species: Pimephales promelas [flow + 1.83 <th></th> <th>3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</th>		3.96 - 5.18 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
Hydrogen sulfide (7783-06-4)         LCSD Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])         LCS 0 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC 7 de Oil       Persistence and Degradability         Persistence and Degradability       Not established.         Crude Oil       Bioaccumulative Potential         Bioaccumulative Potential       Not established.         Tolucne (108-88-3)       0         Log Pow       2.65         Xylenes (or, m, p- Isomers) (130-20-7)       EG Fish 1         Bc Fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Berzene (71-43-2)       Ethylibenzene (100-41-4)         EC fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       0.45 (at 25 °C)         Log Pow       0.45 (at 25 °C)         Log Pow       0.45 (at 25 °C)	LC 50 Fish 2	23.03 - 42.07 mg/I (Exposure time: 96 h - Species: Pimephales promelas [static])			
LC50 Fish 1       0.0448 mg/l (Exposure time: 96 h - Species: Leponis macrochirus [flow-through])         LC50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         LC30 Fish 1       0.6 (0.6 - 15)         Log Pow       2.65         Xylenes (o., m., p-isomers) (1330-02-7)       Exposure (10-41-4)         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-42-7)       Exposure (10-42-7)         Log Pow <th>Hydrogen sulfide (7783-06-4)</th> <th></th>	Hydrogen sulfide (7783-06-4)				
LC 50 Fish 2       0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])         12.2. Persistence and Degradability       Not established.         Persistence and Degradability       Not established.         12.3. Bioaccumulative Potential       Crude Oil         Bioaccumulative Potential       Not established.         Toluene (108-88-3)       0.6 (0.6 - 15)         Log Pow       2.65         Xylenes (o., m., p. isomers) (1330-20-7)       BCF fish 1         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Bennen (71-43-2)       BCF fish 1         BCF fish 1       1.5         Log Pow       3.118         Cyclohexane (100-41-4)       BCF fish 1         BCF fish 1       1.5         Log Pow       3.44         Hydrogen sulfide (7783-06-4)       BCF fish 1         Cyclohexane (110-82-7)       Log Pow         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available       1.2.5         12.5. Other Adverse Effects       Other Information         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because	LC50 Fish 1	0.0448 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])			
12.2. Persistence and Degradability         Crude Oil         Persistence and Degradability       Not established.         12.3. Bioaccumulative Potential       Image: Crude Oil         Bioaccumulative Potential       Not established.         Toluene (108-88-3)       Image: Crude Oil         Log Pow       2.65         Xylenes (o., m., p. isomers) (1330-20-7)       BCF fish 1         Berzene (71-43-2)       Berzene (71-43-2)         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       1.5         Log Pow       3.118         Cyclohexane (110-82-7)       Image: Crude Oil         Log Pow       3.44         Hydrogen sulfide (7783-06-4)       BCF fish 1         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available       12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS       13.1. Waste treatment methods         Waste Disposal Recording and the environment.       SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT       Proper Sh	LC 50 Fish 2	0.016 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])			
Crude Oil         Persistence and Degradability       Not established.         12.3. Bioaccumulative Potential       Image: Crude Oil         Bioaccumulative Potential       Not established.         Toluene (108-88-3)       Image: Crude Oil         Log Pow       2.65         Xylenes (o., m., p. isomers) (1330-20-7)       BCF fish 1         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Image: Crude Oil         Log Pow       3.44         Hydrogen sulfide (7783-06-4)       BCF fish 1         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Adverse Effects       Thermostom crude available         13.1.       Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.	12.2. Persistence and Degradability				
Persistence and Degradability       Not established.         12.3. Bioaccumulative Potential       Not established.         Crude Oil       Bioaccumulative Potential       Not established.         Toluene (108-88-3)	Crude Oil				
12.3. Bioaccumulative Potential       Not established.         Bioaccumulative Potential       Not established.         Toluene (108-88-3)       Log Pow         Log Pow       2.65         Xylenes (o-, m-, p- isomers) (1330-20-7)       BCF fish 1         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-01-14)       BCF fish 1         BCF fish 1       1.5         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.118         Cyclohexane (10-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available         12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and intern	Persistence and Degradability	Not established.			
Crude Oil       Bioaccumulative Potential       Not established.         Toluene (108-88-3)	12.3. Bioaccumulative Potential				
Bioaccumulative Potential       Not established.         Toluene (108-88-3)       2.65         Log Pow       2.65         Xylenes (or, m, p. isomers) (1330-20-7)       BCF fish 1         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       0.45 (at 25 *C)         Log Pow       0.45 (at 25 *C)         1.2.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information:       Hapterial is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OI	Crude Oil				
Toluene (108-88-3)         Log Pow       2.65         Xylenes (o., m., p. isomers) (1330-20-7)         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       15         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT	Bioaccumulative Potential	Not established.			
Iog Pow       2.65         Xylenes (or, m, prisomers) (1330-20-7)       BCF fish 1         Log Pow       2.77 - 3.15         Berzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORNATION         14.1. In Accordance with DOT	Toluene (108-88-3)				
Log Yow       12:03         Xylenes (p., m., p. isomers) (1330-20-7)       BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1       3.5 - 4.4         Log Pow       1.83       Ethylbenzene (100-41-4)         BCF fish 1       15       Log Pow         I Log Pow       3.118       Cyclohexane (110-82-7)         Log Pow       3.144       Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)       BCF fish 1         Log Pow       0.45 (at 25 °C)       12.4.         Mobility in Soil No additional information available       12.5. Other Adverse Effects       Other Information         Cyclohexate Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.       Additional information suit had empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.       SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT       Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3       : 3         Identification Number       : UN1267       Image: State sta	Log Pow	2.65			
Avienes (or, mr, pr isomers) (1330-20-7)         BCF fish 1       0.6 (0.6 - 15)         Log Pow       2.77 - 3.15         Benzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Cyclohexane (100-82-7)         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         21.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT	$\frac{1}{1}$	2.05			
BCF fish 1       0.6 (0.6 - 1.5)         Log Pow       2.77 - 3.15         Berzene (71-43-2)       BCF fish 1         BC fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BC f fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Information         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proger Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identific	Xylenes (0-, m-, p- isomers) (1330-20-7)				
Log Pow       2.77-3.15         Benzene (71-43-2)       BCF fish 1         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)       BCF fish 1         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available       12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS       13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number	BCF fish 1	0.6 (0.6 - 15)			
Berzene (71-43-2)         BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : 3         Identification Number       : 3		2.77 - 3.15			
BCF fish 1       3.5 - 4.4         Log Pow       1.83         Ethylbenzene (100-41-4)       BCF fish 1         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)       BCF fish 1         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : JN1267         Label Codes	Benzene (71-43-2)				
Log Pow       1.33         Ethylbenzene (100-41-4)         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology - Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : 3	BCF fish 1	3.5 - 4.4			
Ethylbenzene (100-41-4)         BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)       Log Pow         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Information         c Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology - Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Log Pow	1.83			
BCF fish 1       15         Log Pow       3.118         Cyclohexane (110-82-7)	Ethylbenzene (100-41-4)				
Log Pow       3.118         Cyclohexane (110-82-7)	BCF fish 1	15			
Cyclohexane (110-82-7)         Log Pow       3.44         Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Log Pow	3.118			
Log Pow       3.44         Hydrogen sulfide (7783-06-4)       (no bioaccumulation expected)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Cyclohexane (110-82-7)				
Hydrogen sulfide (7783-06-4)         BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available       12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS       13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Log Pow	3.44			
BCF fish 1       (no bioaccumulation expected)         Log Pow       0.45 (at 25 °C)         12.4. Mobility in Soil No additional information available       12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS       13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : JUN1267         Label Codes       : 3	Hydrogen sulfide (7783-06-4)				
Log Pow       0.45 (at 25 °C)         12.4.       Mobility in Soil No additional information available         12.5.       Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1.       Waste treatment methods         Waste Disposal Recommendations:       Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information:       Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials:       This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : 0N1267         Label Codes       : 3	BCF fish 1	(no bioaccumulation expected)			
12.4. Mobility in Soil No additional information available         12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Log Pow	0.45 (at 25 °C)			
12.5. Other Adverse Effects         Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : 3         Identification Number       : 3	12.4. Mobility in Soil No additional info	rmation available			
Other Information       : Avoid release to the environment.         SECTION 13: DISPOSAL CONSIDERATIONS         13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	12.5. Other Adverse Effects				
SECTION 13: DISPOSAL CONSIDERATIONS         13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Other Information	: Avoid release to the environment.			
<ul> <li>13.1. Waste treatment methods         Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.     </li> <li>SECTION 14: TRANSPORT INFORMATION     </li> <li>14.1. In Accordance with DOT         Proper Shipping Name         PETROLEUM CRUDE OIL         Hazard Class         I 3         Identification Number         I 3         </li> </ul>	<b>SECTION 13: DISPOSAL CONSIDERATI</b>	ONS			
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.         Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       :         PETROLEUM CRUDE OIL         Hazard Class       :         Identification Number       :         UN1267         Label Codes       :	13.1. Waste treatment methods				
regulations. Additional Information: Handle empty containers with care because residual vapors are flammable. Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways. SECTION 14: TRANSPORT INFORMATION 14.1. In Accordance with DOT Proper Shipping Name : PETROLEUM CRUDE OIL Hazard Class : 3 Identification Number : UN1267 Label Codes : 3	Waste Disposal Recommendations: Dispo	se of waste material in accordance with all local regional national and international			
Additional Information: Handle empty containers with care because residual vapors are flammable.         Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       :         identification Number       :         0       UN1267         Label Codes       :	regulations.				
Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.         SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT       Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3       : Julie 1000         Identification Number       : UN1267       : Julie 1000         Label Codes       : 3       : Julie 1000	Additional Information: Handle empty containers with care because residual vapors are flammable.				
SECTION 14: TRANSPORT INFORMATION         14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	Ecology – Waste Materials: This material i	s hazardous to the aquatic environment. Keep out of sewers and waterways.			
14.1. In Accordance with DOT         Proper Shipping Name       : PETROLEUM CRUDE OIL         Hazard Class       : 3         Identification Number       : UN1267         Label Codes       : 3	SECTION 14: TRANSPORT INFORMAT	ION			
Proper Shipping Name       :       PETROLEUM CRUDE OIL         Hazard Class       :       3         Identification Number       :       UN1267         Label Codes       :       3	14.1. In Accordance with DOT				
Hazard Class     :     3       Identification Number     :     UN1267       Label Codes     :     3	Proper Shinning Name · PETROI				
Identification Number     :     UN1267       Label Codes     :     3	Hazard Class				
Label Codes : 3	Identification Number · UN126	7			
···· ····· ··· ··· ··· ··· ··· ··· ···	Label Codes : 3				
Packing Group	Packing Group	$\mathbf{v}$			

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Marine Pollutant	:	No	
ERG Number	:	128	
14.2. In Accordance with IM	DG		
Proper Shipping Name	:	PETROLEUM CRUDE OIL	
Hazard Class	:	3	
Identification Number	:	UN1267	
Packing Group	:	II	
Label Codes	:	3	July .
EmS-No. (Fire)	:	F-E	$\langle \mathbf{v} \rangle$
EmS-No. (Spillage)	:	S-E	3
Marine Pollutant	:	Marine pollutant	·
14.3. In Accordance with IAT	Α		
Proper Shipping Name	:	PETROLEUM CRUDE OIL	
Packing Group	:	II	
Identification Number	:	UN1267	, the
Hazard Class	:	3	$\langle \underline{\bullet} \rangle$
Label Codes	:	3	3
ERG Code (IATA)	:	31	•

## SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations			
Crude Oil			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		
	Delayed (chronic) health hazard		
	Fire hazard		
Petroleum (8002-05-9)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Toluene (108-88-3)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of	1000 lb		
Lists)			
SARA Section 313 - Emission Reporting	1.0 %		
Xylenes (o-, m-, p- isomers) (1330-20-7)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of	100 lb		
Lists)			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard		
	Fire hazard		
	Immediate (acute) health hazard		
SARA Section 313 - Emission Reporting	1.0 %		
Benzene (71-43-2)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of	10 lb		
Lists)			
SARA Section 313 - Emission Reporting	0.1 %		
Ethylbenzene (100-41-4)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Listed on United States SARA Section 313			
RQ (Reportable quantity, section 304 of EPA's List of	1000 lb		
Lists)			
SARA Section 313 - Emission Reporting	0.1%		

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Cyclohexane (110-82-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on United States SARA Section 313		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule	
	under TSCA.	
SARA Section 313 - Emission Reporting	1.0 %	
Hydrogen sulfide (7783-06-4)		
Listed on the United States TSCA (Toxic Substances Cont	trol Act) inventory	
Listed on the United States SARA Section 302		
Listed on United States SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ)	500	
SARA Section 313 - Emission Reporting	1.0 %	
15.2 US State Regulations		
Toluene (108-88-3)		
U.S California - Proposition 65 - Developmental	WARNING: This product contains chemicals known to the State of	
Toxicity	California to cause birth defects.	
U.S California - Proposition 65 - Reproductive	WARNING: This product contains chemicals known to the State of	
Toxicity - Female	California to cause (Female) reproductive harm.	
Benzene (71-43-2)		
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of	
	California to cause cancer.	
U.S California - Proposition 65 - Developmental	California to cause with defects	
Toxicity	California to cause birth defects.	
U.S California - Proposition 65 - Reproductive	California to sause (Male) reproductive harm	
Ethylhonzono (100 41 4)		
LINS California Proposition 6E Carcinogons List	WARNING: This product contains chamicals known to the State of	
0.5 California - Proposition 65 - Carcinogens List	California to cause cancer	
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substance	List	
U.S Pennsylvania - RTK (Right to Know) List		
Toluene (108-88-3)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substance	List	
U.S Pennsylvania - RTK (Right to Know) - Environmenta	al Hazard List	
U.S Pennsylvania - RTK (Right to Know) List		
Xylenes (o-, m-, p- isomers) (1330-20-7)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substance List		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
U.S Pennsylvania - RTK (Right to Know) List		
Benzene (71-43-2)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substance List		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
U.S Pennsylvania - RTK (Right to Know) List		
Ethylbenzene (100-41-4)		
U.S Massachusetts - Right To Know List		
U.S New Jersey - Right to Know Hazardous Substance List		
U.S Pennsylvania - RTK (Right to Know) - Environmenta	ai Hazard List	
U.S Pennsylvania - KTK (Kight to Know) List		
Cyclohexane (110-82-7)		

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- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

### Hydrogen sulfide (7783-06-4)

U.S. - Massachusetts - Right To Know List

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** 

**Other Information** 

: 08/11/2021

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **GHS Full Text Phrases:**

Acute Tox. 4 (Dermal)Acute toxicity (dermal) Category 4Acute Tox. 4 (Inhalation:vapour)Acute toxicity (inhalation:vapour) Category 4Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Acute 2Hazardous to the aquatic environment - Acute Hazard Category 2Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Gases under pressure Liquefied gasGases under pressure Liquefied gas	Acute Tox. 2 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 2
Acute Tox. 4 (Inhalation:vapour)Acute toxicity (inhalation:vapour) Category 4Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Acute 2Hazardous to the aquatic environment - Acute Hazard Category 2Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 1Carc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Acute 2Hazardous to the aquatic environment - Acute Hazard Category 2Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gasLiquefied gasGases under pressure Liquefied gas	Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 2Hazardous to the aquatic environment - Acute Hazard Category 2Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable liquids Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 1BCarc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 2Flammable liquids Category 2Iquefied gasGases under pressure Liquefied gas	Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 3Hazardous to the aquatic environment - Chronic Hazard Category 3Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 1BCarc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 2Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1Aspiration hazard Category 1Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 1BCarc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1ACarcinogenicity Category 1ACarc. 1BCarcinogenicity Category 1BCarc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 2Flam. Liq. 2Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1BCarcinogenicity Category 1BCarc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Carc. 1A	Carcinogenicity Category 1A
Carc. 2Carcinogenicity Category 2Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Carc. 1B	Carcinogenicity Category 1B
Eye Irrit. 2ASerious eye damage/eye irritation Category 2AEye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2BSerious eye damage/eye irritation Category 2BFlam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Gas 1Flammable gases Category 1Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 1Flammable liquids Category 1Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 3Liquefied gasGases under pressure Liquefied gas	Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 3     Flammable liquids Category 3       Liquefied gas     Gases under pressure Liquefied gas	Flam. Liq. 2	Flammable liquids Category 2
Liquefied gas Gases under pressure Liquefied gas	Flam. Liq. 3	Flammable liquids Category 3
	Liquefied gas	Gases under pressure Liquefied gas
Muta. 1B Germ cell mutagenicity Category 1B	Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2   Reproductive toxicity Category 2	Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2 Skin corrosion/irritation Category 2	Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1 Specific target organ toxicity (repeated exposure) Category 1	STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2         Specific target organ toxicity (repeated exposure) Category 2	STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3 Specific target organ toxicity (single exposure) Category 3	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3 Specific target organ toxicity (single exposure) Category 3	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H220 Extremely flammable gas	H220	Extremely flammable gas
H224 Extremely flammable liquid and vapor	H224	Extremely flammable liquid and vapor
H225 Highly flammable liquid and vapor	H225	Highly flammable liquid and vapor
H226 Flammable liquid and vapor	H226	Flammable liquid and vapor
H280 Contains gas under pressure; may explode if heated	H280	Contains gas under pressure; may explode if heated
H304 May be fatal if swallowed and enters airways	H304	May be fatal if swallowed and enters airways
H312 Harmful in contact with skin	H312	Harmful in contact with skin
H315 Causes skin irritation	H315	Causes skin irritation
H319 Causes serious eye irritation	H319	Causes serious eye irritation
H320 Causes eye irritation	H320	Causes eye irritation
H330 Fatal if inhaled	H330	Fatal if inhaled

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	H332		Harmful if inhaled	
	H335		May cause respiratory irritation	
	H336		May cause drowsiness or dizziness	
	H340		May cause genetic defects	
	H350		May cause cancer	
	H351		Suspected of causing cancer	
	H361		Suspected of damaging fertility or the unborn child	
	H372		Causes damage to organs through prolonged or repeated exposure	
	H373		May cause damage to organs through prolonged or repeated exposure	
	H400		Very toxic to aquatic life	
	H401		Toxic to aquatic life	
	H410		Very toxic to aquatic life with long lasting effects	
	H411		Toxic to aquatic life with long lasting effects	
	H412		Harmful to aquatic life with long lasting effects	
NFPA	ealth Hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.			
NFPA	Fire Hazard	: 3 - Liquids a almost all ar	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.	
NFPA	Reactivity	: 0 - Normally conditions, a	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS	III Rating			
Health	ı	: 2 Moderate	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability : 3 Serious Hazard		: 3 Serious H	azard	
Physic	al	: 0 Minimal H	Hazard	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)