



Light Pyrolysis Oil

Version 1.7

Revision Date 2014-07-16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Trade name : Light Pyrolysis Oil
 Material : 1037438, 1037439

Company : Chevron Phillips Chemical Company LP
 10001 Six Pines Drive
 The Woodlands, TX 77380

Emergency telephone:

Health:

866.442.9628 (North America)
 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887
 Asia: +800 CHEMCALL (+800 2436 2255)
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
 E-mail address : MSDS@CPChem.com
 Website : www.CPChem.com

SECTION 2: Hazards identification

Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Emergency Overview

Danger

Physical state: Liquid **Color:** Blue green

OSHA Hazards : Combustible Liquid, Carcinogen, Moderate skin irritant,
 Moderate eye irritant, Skin sensitizer, Target Organ Effects,
 Aspiration hazard

Classification

: Flammable liquids , Category 3
 Skin irritation , Category 2
 Eye irritation , Category 2A
 Skin sensitization , Category 1
 Carcinogenicity , Category 2

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Specific target organ systemic toxicity - repeated exposure ,
 Category 1 , Eyes , Blood
 Specific target organ systemic toxicity - repeated exposure ,
 Category 2 , Auditory organs
 Aspiration hazard , Category 1

Labeling

Symbol(s)



Signal Word

: Danger

Hazard Statements

: H226: Flammable liquid and vapor.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H351: Suspected of causing cancer.
 H372: Causes damage to organs (Eyes, Blood, Auditory organs) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**
 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/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/fume/gas/mist/vapor/spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.
Response:
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 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.
 P331 Do NOT induce vomiting.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P362 Take off contaminated clothing and wash before reuse.

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P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC	Group 2B: Possibly carcinogenic to humans
	Naphthalene 91-20-3
	Ethylbenzene 100-41-4
	Cumene 98-82-8
NTP	Reasonably anticipated to be a human carcinogen
	Naphthalene 91-20-3
ACGIH	Confirmed animal carcinogen with unknown relevance to humans
	Solvent Naphtha (Petroleum), Heavy Aromatic 64742-94-5

SECTION 3: Composition/information on ingredients

Synonyms : Light Fuel Oil
Light Pyrolysis Gasoline
LPO
LFO

Molecular formula : UVCB

Component	CAS-No.	Weight %
Steam Cracked Petroleum Distillate C10-C12	68477-40-7	100
Naphthalene	91-20-3	70 - 90
4,7-Methano-1H-indene, octahydro-	6004-38-2	30 - 50
2-Methylnaphthalene	91-57-6	10 - 20
1-Methylnaphthalene	90-12-0	1 - 10
Indene	95-13-6	1 - 10
Ethylbenzene	100-41-4	1 - 10
Biphenyl	92-52-4	1 - 10
2,3-Dihydro-1H-Indene	496-11-7	1 - 10
2-Ethyl-naphthalene	939-27-5	1 - 10
Benzene, dimethyl-	1330-20-7	1 - 10
1-Methylindan	767-58-8	1 - 10
1,2,4-Trimethylbenzene	95-63-6	1 - 10
1-ethylnaphthalene	1127-76-0	1 - 10
Substituted Aromatic Amine	Proprietary	0.1 - 1

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SECTION 4: First aid measures

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled : If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

- Flash point : 60 - 93.3 °C (140 - 199.9 °F)
- Autoignition temperature : 340 °C (644 °F)
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical.
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
- Fire and explosion protection : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
- Hazardous decomposition products : No data available.

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SECTION 6: Accidental release measures

- Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage**Handling**

- Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Storage

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection**Ingredients with workplace control parameters****US**

Ingredients	Basis	Value	Control parameters	Note
Naphthalene	ACGIH	TWA	10 ppm,	A4, Skin,
	ACGIH	STEL	15 ppm,	A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	(b),

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	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
Indene	ACGIH	TWA	5 ppm,	
	OSHA Z-1-A	TWA	10 ppm, 45 mg/m3	
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	
Biphenyl	ACGIH	TWA	0.2 ppm,	
	OSHA Z-1	TWA	0.2 ppm, 1 mg/m3	(b),
	OSHA Z-1-A	TWA	0.2 ppm, 1 mg/m3	
Benzene, dimethyl-	ACGIH	TWA	100 ppm,	BEI, A4,
	ACGIH	STEL	150 ppm,	BEI, A4,
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m3	
	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
1,2,4-Trimethylbenzene	NIOSH REL	TWA	25 ppm, 125 mg/m3	
	ACGIH	TWA	25 ppm,	
Cumene	ACGIH	TWA	50 ppm,	
	OSHA Z-1	TWA	50 ppm, 245 mg/m3	X, (b),
	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	X,
Solvent Naphtha (Petroleum), Heavy Aromatic	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
	ACGIH	TWA	200 mg/m3	P, A3, Skin, varies,
	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	

- (b) The value in mg/m3 is approximate.
A3 Confirmed animal carcinogen with unknown relevance to humans
A4 Not classifiable as a human carcinogen
BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)
P Application restricted to conditions in which there are negligible aerosol exposures
Skin Danger of cutaneous absorption
varies varies
X Skin notation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01
Biphenyl	92-52-4	Immediately Dangerous to Life or Health Concentration Value 100 milligram per cubic meter	1995-03-01
Benzene, dimethyl-	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01

Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this

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	material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals. Workers should wear antistatic footwear.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Physical state	: Liquid
Color	: Blue green

Safety data

Flash point	: 60 - 93.3 °C (140 - 199.9 °F)
Lower explosion limit	: No data available
Upper explosion limit	: No data available

Oxidizing properties	: No
Autoignition temperature	: 340 °C (644 °F)
Molecular formula	: UVCB
Molecular weight	: Not applicable
pH	: Not applicable
Freezing point	: 7 °C (45 °F)
pour point	No data available

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Boiling point/boiling range	: 170 °C (338 °F)
Vapor pressure	: No data available
Relative density	: 0.95, 15.6 °C(60.1 °F)
Water solubility	: Insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Relative vapor density	: No data available
Evaporation rate	: < 0.1
Percent volatile	: 5.4 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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Acute oral toxicity : LD50: 2,890 mg/kg
 Species: rat

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Acute inhalation toxicity : LC50: > 5 mg/l
 Exposure time: 4 h
 Species: rat
 Test atmosphere: dust/mist

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Acute dermal toxicity : LC50: > 2,000 mg/kg
 Species: rabbit
 Information given is based on data obtained from similar substances.

Acute toxicity estimate: > 5,000 mg/kg
 Method: Calculation method

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Light Pyrolysis Oil**Skin irritation**

: May cause skin irritation and/or dermatitis.

Light Pyrolysis Oil**Eye irritation**

: May irritate eyes.

Light Pyrolysis Oil**Sensitization**

: May cause sensitization of susceptible persons by skin contact.

Causes sensitization.

Repeated dose toxicity

Ethylbenzene

: Species: rat, male
Sex: male
Application Route: Inhalation
Dose: 200, 400, 600, 800 ppm
Exposure time: 13 weeks
Number of exposures: 6 hours/day, 6 days/week
NOEL: 200 ppm
Test substance: yes
Target Organs: Ototoxicity

Benzene, dimethyl-

Species: rat
Application Route: oral gavage
Dose: 0, 62.5, 125, 250, 500, 100...
Exposure time: 13 wk
Number of exposures: daily, 5 d/wk
NOEL: 1,000 mg/kgSpecies: rat
Application Route: Inhalation
Dose: 0, 180, 460, 810 ppm
Exposure time: 13 wk
Number of exposures: 6 h/d, 5 d/wk
NOEL: > 810 ppmSpecies: rat
Application Route: Inhalation
Dose: 0, 450, 900, 1800 ppm
Exposure time: 13 wk
Number of exposures: 6 h/d, 6 d/wk
Lowest observable effect level: 900 ppm**Carcinogenicity**

Naphthalene

: Species: mouse
Sex: male
Dose: 10, 30 ppm
Exposure time: 105 weeks
Number of exposures: 6 hours/day, 5 days/week
Test substance: yes
Print Date: No information available.
Remarks: No evidence of carcinogenicity

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Species: mouse
 Sex: female
 Dose: 10, 30 ppm
 Exposure time: 105 weeks
 Number of exposures: 6 hours/day, 5 days/week
 Test substance: yes
 Print Date: No information available.
 Remarks: increased incidence of alveolar/bronchiolar adenomas

Species: rat
 Sex: male and female
 Dose: 10, 30, 60 ppm
 Exposure time: 105 weeks
 Number of exposures: 6 hours/day, 5 days/week
 Test substance: yes
 Print Date: No information available.
 Remarks: nose respiratory epithelial adenoma, increased incidence of olfactory neuroblastomas

Benzene, dimethyl-

Species: rat
 Dose: 0, 250, 500 mg/kg
 Exposure time: 103 wks
 Number of exposures: 5 d/wk
 Remarks: No evidence of carcinogenicity

Species: mouse
 Dose: 0, 500, 1000 mg/kg
 Exposure time: 103 wks
 Number of exposures: 5 d/wk
 Remarks: No evidence of carcinogenicity

Developmental Toxicity

Naphthalene

: Species: rabbit
 Application Route: oral gavage
 Dose: 40, 200, 400 mg/kg
 Test period: 29 d, GD 6-18
 NOAEL Teratogenicity: 400 mg/kg

Benzene, dimethyl-

Species: rat
 Application Route: Inhalation
 Dose: 0, 805, 1610 ppm
 Number of exposures: 6 h/d
 Test period: GD 7-16
 NOAEL Maternal: 1610 ppm

Species: mouse
 Application Route: oral gavage
 Dose: 0, 780, 1960, 2619 mg/kg
 Number of exposures: 3 times/d
 Test period: GD 6-15
 NOAEL Teratogenicity: 780 mg/kg
 NOAEL Maternal: 780 mg/kg

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Aspiration toxicity

: May be fatal if swallowed and enters airways.

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CMR effects

Steam Cracked Petroleum Distillate C10-C12 : Carcinogenicity: Limited evidence of carcinogenicity in animal studies

Naphthalene Carcinogenicity: Limited evidence of carcinogenicity in animal studies

Ethylbenzene Mutagenicity: In vivo tests did not show mutagenic effects
Teratogenicity: Did not show teratogenic effects in animal experiments.
Reproductive toxicity: No toxicity to reproduction

Benzene, dimethyl- Carcinogenicity: Limited evidence of carcinogenicity in animal studies
Mutagenicity: Did not show mutagenic effects in animal experiments.
Teratogenicity: Damage to fetus not classifiable

**Light Pyrolysis Oil
Further information**

: Solvents may degrease the skin.

SECTION 12: Ecological information**Toxicity to fish**

Naphthalene : LC50: 3.2 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)

1-Methylnaphthalene LC50: 9 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
static test

Ethylbenzene LC50: 4.3 mg/l
Exposure time: 96 h
Species: Marone saxatilis (striped bass)

Benzene, dimethyl- LC50: 8.2 mg/l
Exposure time: 96 h
Species: Salmo gairdneri (Rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

Naphthalene : LC50: 2.16 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Ethylbenzene LC50: 2.6 mg/l
Exposure time: 96 h
Species: Mysidopsis bahia (mysid shrimp)

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EC50: 2.2 mg/l
 Exposure time: 48 h
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 202

Toxicity to algae

Naphthalene : EC50: 2.96 mg/l
 Exposure time: 48 h
 Species: Selenastrum capricornutum (algae)

Ethylbenzene ErC50: 5.0 mg/l
 Exposure time: 96 h
 Species: Selenastrum capricornutum (algae)

ErC50: 7.7 mg/l
 Exposure time: 72 h
 Species: Skeletonema costatum (Marine Algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylbenzene : NOEC: 1 mg/l
 Exposure time: 7 d
 Species: Daphnia pulex (Water flea)
 semi-static test
 Analytical monitoring: yes

Elimination information (persistence and degradability)

Biodegradability : Expected to be ultimately biodegradable

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Impact on Sewage Treatment : No data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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- Product : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1202, HOT GAS OIL, 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1202, HOT GAS OIL, 3, III, (60 - 93.3 °C), MARINE POLLUTANT, (NAPHTHALENE, CUMENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1202, 3: NOT PERMITTED FOR TRANSPORT

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1202, HOT GAS OIL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, CUMENE)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

UN1202, HOT GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, CUMENE)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1202, HOT GAS OIL, 3, III, ENVIRONMENTALLY HAZARDOUS, (NAPHTHALENE, CUMENE)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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SECTION 15: Regulatory information**National legislation**

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO - KNOW

CERCLA Reportable Quantity : 125 lbs
Naphthalene

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Ingredients : The following components are subject to reporting levels established by SARA Title III, Section 313:

: Naphthalene - 91-20-3
Ethylbenzene - 100-41-4
Biphenyl - 92-52-4
Benzene, dimethyl- - 1330-20-7
1,2,4-Trimethylbenzene - 95-63-6

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

: Naphthalene - 91-20-3
Ethylbenzene - 100-41-4
Biphenyl - 92-52-4
Benzene, dimethyl- - 1330-20-7
Cumene - 98-82-8

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

- : Ethylbenzene - 100-41-4
- Biphenyl - 92-52-4
- Benzene, dimethyl- - 1330-20-7
- 1-ethylnaphthalene - 1127-76-0
- Cumene - 98-82-8

US State Regulations

Pennsylvania Right To Know

- : Naphthalene - 91-20-3
- Indene - 95-13-6
- Ethylbenzene - 100-41-4
- Benzene, dimethyl- - 1330-20-7
- 1,2,4-Trimethylbenzene - 95-63-6
- Cumene - 98-82-8

Pennsylvania Right To Know

- : Steam Cracked Petroleum Distillate C10-C12 - 68477-40-7
- Naphthalene - 91-20-3
- 4,7-Methano-1H-indene, octahydro- - 6004-38-2
- 2-Methylnaphthalene - 91-57-6
- 1-Methylnaphthalene - 90-12-0
- Naphthalene, dimethyl- - 28804-88-8
- Indene - 95-13-6
- Ethylbenzene - 100-41-4
- Biphenyl - 92-52-4
- Benzene, dimethyl- - 1330-20-7
- 1,2,4-Trimethylbenzene - 95-63-6
- Cumene - 98-82-8

New Jersey Right To Know

- : Naphthalene - 91-20-3
- Indene - 95-13-6
- Ethylbenzene - 100-41-4
- Benzene, dimethyl- - 1330-20-7
- 1,2,4-Trimethylbenzene - 95-63-6

New Jersey Right To Know

- : Steam Cracked Petroleum Distillate C10-C12 - 68477-40-7
- Naphthalene - 91-20-3
- 4,7-Methano-1H-indene, octahydro- - 6004-38-2
- 2-Methylnaphthalene - 91-57-6
- 1-Methylnaphthalene - 90-12-0
- Naphthalene, dimethyl- - 28804-88-8
- Indene - 95-13-6
- Ethylbenzene - 100-41-4
- Biphenyl - 92-52-4

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Benzene, dimethyl- - 1330-20-7
 1,2,4-Trimethylbenzene - 95-63-6

California Prop. 65 Ingredients : WARNING! This product contains a chemical known in the State of California to cause cancer.

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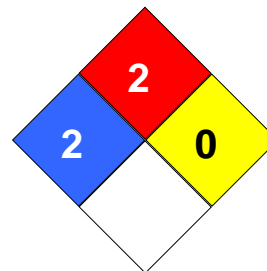
Naphthalene	91-20-3
Ethylbenzene	100-41-4
Cumene	98-82-8

Notification status

Europe REACH	: Not in compliance with the inventory
United States of America TSCA	: On the inventory, or in compliance with the inventory
Canada NDSL	: This product contains one or several components listed in the Canadian NDSL.
Australia AICS	: On the inventory, or in compliance with the inventory
New Zealand NZIoC	: Not in compliance with the inventory
Japan ENCS	: On the inventory, or in compliance with the inventory
Korea KECI	: On the inventory, or in compliance with the inventory
Philippines PICCS	: Not in compliance with the inventory
China IECSC	: Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2
 Fire Hazard: 2
 Reactivity Hazard: 0

**Further information**

Legacy SDS Number : PE0054

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		