SAFETY DATA SHEET



Heavy Pyrolysis Oil

Version 1.12

Revision Date 2024-05-16

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : Heavy Pyrolysis Oil Material : 1037426, 1037425 Use : Odorant, Fuel, Solvent : Chevron Phillips Chemical Company LP Company 10001 Six Pines Drive The Woodlands, TX 77380 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) SDS Number:100000014923 1/16

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME - Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME - Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE - Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA - IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO - Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA - Azienda Ospedaliera Universitaria integrata Tel. 800 011 858: Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 – ask for Poisons Information : Product Safety and Toxicology Group Responsible Department SDS@CPChem.com E-mail address 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. Classification : Acute toxicity, Category 4, Inhalation Skin sensitization, Category 1 Carcinogenicity, Category 1A Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 2, Blood, Auditory organs, thymus Specific target organ toxicity - repeated exposure, Category 2, Inhalation, Auditory organs Aspiration hazard, Category 1 Labeling Symbol(s) SDS Number:100000014923 2/16

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e fatal if swallowed and enters airways. ause an allergic skin reaction. If inhaled. ause cancer. cted of damaging fertility or the unborn child. ause damage to organs (Blood, Auditory organs, agh prolonged or repeated exposure. ause damage to organs (Auditory organs) through repeated exposure if inhaled. special instructions before use. handle until all safety precautions have been stood. breathe dust/ fume/ gas/ mist/ vapors/ spray.
ause an allergic skin reaction. Il if inhaled. ause cancer. cted of damaging fertility or the unborn child. ause damage to organs (Blood, Auditory organs, igh prolonged or repeated exposure. ause damage to organs (Auditory organs) through repeated exposure if inhaled. special instructions before use. handle until all safety precautions have been stood.
handle until all safety precautions have been stood.
 Is called dust fume/ gas/finite/ vapors/ spray. Iy outdoors or in a well-ventilated area. ninated work clothing must not be allowed out of protective gloves/ protective clothing/ eye protection. IF SWALLOWED: Immediately call a POISON or. IF ON SKIN: Wash with plenty of soap and P312 IF INHALED: Remove person to fresh omfortable for breathing. Call a POISON or if you feel unwell. IF exposed or concerned: Get medical advice/ T induce vomiting. If skin irritation or rash occurs: Get medical n. contaminated clothing before reuse. ocked up. e of contents/ container to an approved waste
bly carcinogenic to humans
91-20-3
nan carcinogen 85-01-8
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ipated to be a human carcinogen
91-20-3
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If swallowed : P	lenses.	Protect unharmed			
	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.				
T k C r	an unco Take vi Keep re give mi mouth t	espiratory tract clea onscious person. If ctim immediately to espiratory tract clea k or alcoholic beve o an unconscious p an. Take victim imr	symptoms hospital. r. Do NOT rages. Ne person. If	s persist, call a p induce vomitin ver give anythin symptoms persi	ohysician. Ig. Do not Ig by
TION 5: Firefighting measures					
Flash point :	104.44	°C (219.99°F)			
Autoignition temperature :	348.3°	C (658.9°F)			
Unsuitable extinguishing : H media	High vo	lume water jet.			
	Do not courses	allow run-off from fi S.	ire fighting	to enter drains	or water
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Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting 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.
Fire and explosion protection	: Normal measures for preventive fire protection.
CTION 6: Accidental release	measures
Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
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	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
CTION 7: Handling and stora	ge
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. Provide sufficient air exchange and/or exhaust in work rooms. 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	: Normal measures for preventive fire protection.
Storage	
Requirements for storage areas and containers	: 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.
Use	: Odorant, Fuel, Solvent
CTION 8: Exposure controls/	personal protection
Ingredients with workplace	control parameters

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Components	Basis	Value	Control parameters	Note
Naphthalene	ACGIH	TWA	10 ppm,	A3, Skin,
·	ACGIH	STEL	15 ppm,	hematologic eff, URT irr, eye irr, eye dam, () A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
2-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
Biphenyl	ACGIH	TWA	0.2 ppm,	
· · ·	OSHA Z-1	TWA	0.2 ppm, 1 mg/m3	
	OSHA Z-1-A	TWA	0.2 ppm, 1 mg/m3	
1-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
Indene	ACGIH	TWA	5 ppm,	
	OSHA Z-1-A	TWA	10 ppm, 45 mg/m3	
Xylenes	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m3	
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	ACGIH	TWA	100 ppm,	A4,
	ACGIH	STEL	150 ppm,	A4,
Phenanthrene	OSHA Z-1-A	TWA	0.2 mg/m3	
	OSHA Z-1	TWA	0.2 mg/m3	
Anthracene	OSHA Z-1-A	TWA	0.2 mg/m3	
	OSHA Z-1	TWA	0.2 mg/m3	
1,2,4-Trimethylbenzene	ACGIH	TWA	25 ppm,	
•	OSHA Z-1-A	TWA	25 ppm, 125 mg/m3	
Dicyclopentadiene	ACGIH	TWA	0.5 ppm,	
	OSHA Z-1-A	TWA	5 ppm, 30 mg/m3	
	ACGIH	STEL	1 ppm,	

Adopted values or notations enclosed are those for which changes are proposed in the NIC A3 Confirmed animal carcinogen with unknown relevance to humans

A4 Not classifiable as a human carcinogen eye dam Eye damage eye irr Eye irritation

hematologic eff Skin Danger of cutaneous absorption

URT irr Upper Respiratory Tract irritation

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
Biphenyl	92-52-4	Immediately Dangerous to Life or Health Concentration Value 100 mg/m ³	1995-03-01
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Phenanthrene	85-01-8	Immediately Dangerous to Life or Health Concentration Value 80 mg/m ³	2017-09-01
Anthracene	120-12-7	Immediately Dangerous to Life or Health Concentration Value 80 mg/m ³	2017-09-01

Biological exposure indices

Substance name	CAS-No.	Control parameters	Sampling time	Update
Phenanthrene	85-01-8	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20

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Anthracene	120-12-7	1-Hydroxypyrene: 2.5 μg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20
Xylenes	1330-20-7	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
Phenanthrene	85-01-8	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20
Anthracene	120-12-7	1-Hydroxypyrene: 2.5 µg/l Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed (Urine) Background () With hydrolyses ()	End of shift at end of workweek	2018-03-20
		3-hydroxybenzo(a)pyrene: Nonquantitative (Urine) With hydrolyses ()	End of shift at end of workweek	2018-03-20

Engineering measures

Adequate ventilation to control airborned 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	: If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, 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.
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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:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and chem	ical properties
Information on basic phys	ical and chemical properties
Appearance	
Physical state Color	: liquid : dark brown
Safety data	
Flash point	: 104.44°C (219.99°F)
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: 348.3°C (658.9°F)
Molecular formula	: UVCB
Molecular weight	: Not applicable
рН	: Not applicable
Melting point/range	: No data available
Freezing point	No data available
Boiling point/boiling range	: 169.4-579.4°C (336.9-1,074.9°F)
Vapor pressure	: No data available
Relative density	: 1
Water solubility	: Insoluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: 10 - 100 cSt at 98.9°C (210.0°F)
Relative vapor density	: No data available
Evaporation rate	: 1
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Reactivity	: Stable under recommended storage conditions. No decomposition if stored and applied as directed.
Chemical stability	 This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. No decomposition if stored and applied as directed.
Possibility of hazardous re	actions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. No data available.
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	rmation
Heavy Pyrolysis Oil Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat
Heavy Pyrolysis Oil Acute inhalation toxicity	: LC50: > 3.7 mg/l Exposure time: 4 h Species: Rat Test atmosphere: dust/mist
Heavy Pyrolysis Oil Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit
Heavy Pyrolysis Oil Skin irritation	: No skin irritation
Heavy Pyrolysis Oil Eye irritation	: No eye irritation
Heavy Pyrolysis Oil Sensitization	: May cause sensitization of susceptible persons by skin contact. Estimated based on individual component values. Causes sensitization.

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Heavy Pyrolysis Oil Repeated dose toxicity	: This information is not available.		
Heavy Pyrolysis Oil Genotoxicity in vitro	: Remarks: No data available		
Heavy Pyrolysis Oil Genotoxicity in vivo	: Remarks: No data available		
Heavy Pyrolysis Oil Carcinogenicity	: Remarks: This information is not available.		
Heavy Pyrolysis Oil Reproductive toxicity	: This information is not available.		
Heavy Pyrolysis Oil Developmental Toxicity	: This information is not available.		
Heavy Pyrolysis Oil Aspiration toxicity	: May be fatal if swallowed and enters airways.		
CMR effects			
Fuel oil, no. 6	: Carcinogenicity: Possible human carcinogen Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.		
Naphthalene	Carcinogenicity: Limited evidence of carcinogenicity in animal studies		
Heavy Pyrolysis Oil Further information	: Solvents may degrease the skin.		
ECTION 12: Ecological inform	ation		
Ecotoxicity effects Toxicity to fish			
Aromatic hydrocarbons, C9- 11	: LC50: 0.84 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)		
Naphthalene	LC50: 3.2 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)		
Toxicity to daphnia and ot	ner aquatic invertebrates		

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Aromatic hydrocarbons, C9- 11	: EC50: 0.55 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Naphthalene	LC50: 2.16 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Phenanthrene	0.1 mg/l Exposure time: 96 h Species: Daphnia pulex (Water flea)
Anthracene	0.035 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	
Aromatic hydrocarbons, C9- 11	: NOEC: 0.07 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae)
Naphthalene	EC50: 2.96 mg/l Exposure time: 48 h Species: Selenastrum capricornutum (algae)
M-Factor HPO	: M-Factor (Acute Aquat. Tox.) 1
	M-Factor (Chron. Aquat. Tox.) 1
Biodegradability	: This material is not expected to be readily biodegradable. Expected to be ultimately biodegradable
Elimination information (persist	ence and degradability)
Bioaccumulation	: Does not significantly accumulate in organisms.
Mobility	: No data available
Results of PBT assessment Substituted Aromatic Amine	: This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).
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.
Ecotoxicology Assessment	
Short-term (acute) aquatic	: Very toxic to aquatic life.
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hazard Long-term (chronic) aquatic hazard	: 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

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.

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.

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 SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (STEAM CRACKED BOTTOMS), 9, III, MARINE POLLUTANT, (NAPTHALENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (STEAM CRACKED BOTTOMS), 9, III, (104.44 °C c.c.), MARINE POLLUTANT, (NAPTHALENE, BIPHENYL)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3257, 9: NOT PERMITTED FOR TRANSPORT

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

UN3257, ELEVATED TEMPERATURE LIQUID, N.O.S., (STEAM CRACKED BOTTOMS), 9, III, (D), ENVIRONMENTALLY HAZARDOUS, (NAPTHALENE, BIPHENYL)

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Heavy Pyrolysis Oil

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DANGEROUS GOODS (EU 99,UN3257,ELEVATED TI	RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) 99,UN3257,ELEVATED TEMPERATURE LIQUID, N.O.S., (STEAM CRACKED BOTTOMS), 9, III ENVIRONMENTALLY HAZARDOUS, (NAPTHALENE, BIPHENYL)			
OF DANGEROUS GOODS I UN3257, ELEVATED TEI	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) MPERATURE LIQUID, N.O.S., (STEAM CRACKED BOTTOMS), 9, III, AZARDOUS, (NAPTHALENE, BIPHENYL)			
Maritime transport in bulk SECTION 15: Regulatory inform	according to IMO instruments			
National legislation				
SARA 311/312 Hazards	: Acute toxicity (any route of exposure) Respiratory or skin sensitization Carcinogenicity Specific target organ toxicity (single or repeated exposure) Aspiration hazard Reproductive toxicity			
CERCLA Reportable Quantity	: 122 lbs Naphthalene			
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.			
SARA 302 Threshold Planning Quantity	: This material does not contain any components with a section 302 EHS TPQ.			
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.			
SARA 313 Components	 The following components are subject to reporting levels established by SARA Title III, Section 313: Naphthalene - 91-20-3 Biphenyl - 92-52-4 Xylenes - 1330-20-7 			
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avy Pyrolysis Oil	SAFETY DATA SHE
rsion 1.12	Revision Date 2024-05-
	Phenanthrene - 85-01-8 Anthracene - 120-12-7 1,2,4-Trimethylbenzene - 95-63-6 Dicyclopentadiene - 77-73-6
Clean Air Act	
Potential CI	his product neither contains, nor was manufactured with a Class I or ass II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 2, Subpt. A, App.A + B).
The following chemical(s	are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61 : Naphthalene - 91-20-3 Biphenyl - 92-52-4 Xylenes - 1330-20-7 Phenanthrene - 85-01-8 Anthracene - 120-12-7
	ontain any chemicals listed under the U.S. Clean Air Act Section 112(r) for rention (40 CFR 68.130, Subpart F).
The following chemical(s Final VOC's (40 CFR 60.	 are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate (489): 2-Methylnaphthalene - 91-57-6 Biphenyl - 92-52-4 1-Methylnaphthalene - 90-12-0 Xylenes - 1330-20-7 1-ethylnaphthalene - 1127-76-0
US State Regulations	
Pennsylvania Right To K	Inow: Aromatic hydrocarbons, C9-11 - 70693-06-0Fuel oil, no. 6 - 68553-00-4Naphthalene - 91-20-3C24 to > C60 heavy cracked naphtha -Tricyclo[5.2.1.02,6]decane - 6004-38-22-Methylnaphthalene - 91-57-6Biphenyl - 92-52-41-Methylnaphthalene - 90-12-0Naphthalene, dimethyl 28804-88-8Naphthalene, trimethyl 28652-77-9Indene - 95-13-62,3-Dihydro-1H-Indene - 496-11-7Xylenes - 1330-20-7Phenanthrene - 85-01-8Anthracene - 120-12-7

ion 1.12 Revision Date 2024-0 1,2,4-Trimethylbenzene - 95-63-6 Dicyclopentadiene - 77-73-6 California Prop. 65 Components : WARNING! This product contains a chemical known in the State of California to cause cancer. Naphthalene 91-20-3 Phenanthrene 85-01-8 Anthracene 120-12-7 Notification status : Not in compliance with the inventory Switzerland CH INV :: Not in compliance with the inventory Canada DSL :: On or in compliance with the active portion of the TSGA inventory Canada DSL :: On the inventory, or in compliance with the inventory Kww Zealand NZIOC :: Not in compliance with the inventory Japan TCSL :: Not in compliance with the inventory Japan TCSL :: Not in compliance with the inventory Japan TCSL :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC ::	avy Pyrolysis Oil			SAFETY DATA SHE
Dicyclopentadiene - 77-73-6 California Prop. 65 Components : WARNINGI This product contains a chemical known in the State of California to cause cancer. Naphthalene Notification status 91-20-3 Phenanthrene Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory United States of America (USA) :: On or in compliance with the active portion of the TSCA inventory. Or in compliance with the inventory Australia AIIC :: On the inventory, or in compliance with the inventory Australia AIIC :: On the inventory, or in compliance with the inventory Japan ENCS :: Not in compliance with the inventory Philopines PICCS :: Not in compliance with the inventory Taiwan TCSI :: Not in compliance with the inventory Traiwan TCSI :: Not in compliance with the inventory Town in compliance with the inventory : Town in compliance with the inventory : Taiwan TCSI :: Not in compliance with the inventory Triawan TCSI :: Not in compliance with the inventory Taiwan TCSI :: Not in compliance with the inventory Taiwan TCSI :: Not in compliance with the inventory Taiwan TCSI :: Health Hazard: 2 <th>sion 1.12</th> <th></th> <th></th> <th>Revision Date 2024-05</th>	sion 1.12			Revision Date 2024-05
Components State of California to cause cancer. Naphthalene 91-20-3 Phenanthrene Notification status Phenanthrene 85-01-8 Anthracene Europe REACH :: Not in compliance with the inventory Switzerland CH INV :: Not in compliance with the inventory United States of America (USA) :: On or in compliance with the active portion of the TSCA Canada DSL :: On the inventory, or in compliance with the inventory Australia AllC :: On the inventory, or in compliance with the inventory New Zealand NZIOC :: Not in compliance with the inventory New Zealand NZIOC :: Not in compliance with the inventory Japan ENCCS :: Not in compliance with the inventory Teiwan TCSI :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory China IECSC :: Not in compliance with the inventory Fire Hazard: 1 Reactivity Hazard: 0 Image: 1 Further information : Health Hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0				6
Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory Canada DSL : On or in compliance with the active portion of the TSCA inventory Canada DSL : On the inventory, or in compliance with the inventory Australia AIIC : Not in compliance with the inventory New Zealand NZIoC : Not in compliance with the inventory Philippines PICCS : Not in compliance with the inventory Philippines PICCS : Not in compliance with the inventory China IECSC : Not in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory TION 16: Other information NFPA Classification : Health Hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0 Further information ILegacy SDS Number : PE0011 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 no provided in this 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. Key or legend to abbreviations and acronyms used in the safety data sheet ACGIH American Conference of LD50 Lethal Dose 50%	California Prop. 65 Components	State of Califorr Naphthale Phenanth	nia to cause canc ene irene	er. 91-20-3 85-01-8
Legacy SDS Number : PE0011 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 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. Key or legend to abbreviations and acronyms used in the safety data sheet ACGIH American Conference of Government Industrial Hygienists	Notification status Europe REACH Switzerland CH INV United States of America (US TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Philippines PICCS Taiwan TCSI Korea KECI China IECSC TION 16: Other information NFPA Classification	: Not in o A) : On or i TSCA : On the : On the : Not in o : On the : On the	compliance with t in compliance with inventory inventory, or in c inventory, or in c compliance with t compliance with t compliance with t compliance with t inventory, or in c	he inventory h the active portion of the ompliance with the inventory ompliance with the inventory he inventory he inventory he inventory ompliance with the inventory
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			1050	Lethal Dose 50%
AIIC Australian Inventory of Industrial LOAEL Lowest Observed Adverse Effect	ACGIH American Con		2000	

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	Chemicals		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%	ATE	Acute toxicity estimate