

Heavy Aromatic Distillate (HAD)

Version 1.12

Revision Date 2024-05-16

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

	Product information Product Name Material	 Heavy Aromatic Distillate (HAD) 1037387, 1059199, 1059200, 1037388, 1037386
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: 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) 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)		
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) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Hungary: +322 (22 (24 hours/day, 7 days/week)	Use	: Fuel Blendstock, Solvent
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) Griece: (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)	Company	10001 Six Pines Drive
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		4.9300 or 703.527.3887(int'l)

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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 Responsible Department : Product Safety and Toxicology Group 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

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

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Classification

Flammable liquids, Category 3 Acute toxicity, Category 3, Inhalation Skin irritation, Category 2 Carcinogenicity, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 3, Respiratory system, Central nervous system Specific target organ toxicity - repeated exposure, Category 2, Inhalation, Auditory organs, color vision Aspiration hazard, Category 1

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Labeling

Symbol(s)

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Signal Word	: Danger
Hazard Statements	 H226: Flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H331: Toxic if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child. H373: May cause damage to organs (Auditory organs, color vision) through prolonged or repeated exposure if inhaled.
Precautionary Statements	: Prevention:
	 P201 Obtain special instructions before use. 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/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 + P233 Store in a well-ventilated place. Keep containe tightly closed. P403 + P235 Store in a well-ventilated place. Keep cool. P405 + P235 Store in a well-ventilated place. Keep cool. P405 + P235 Store in a well-ventilated place. Keep cool. P405 + P235 Store in a well-ventilated place. Keep cool.
Carcinogenicity:	

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ion 1.12		,	Revision Date 2024-0
IARC	Group 2	B: Possibly carcino	genic to humans
	Ethylber	•	100-41-4
	Cumene		98-82-8
	Naphtha		91-20-3
NTD	•		
NTP		• •	be a human carcinogen
	Cumene		98-82-8
	Naphtha	alene	91-20-3
TION 3: Composition/info	rmation on i	ingredients	
Synonyms	: HAD		
Synonyms		Cracked Distillates	(Petroleum)
		Aromatic Distillate	
		eum Distillates	
Molecular formula	: UVCB		
Component		CAS-No.	Weight %
Hydrocarbons, C9-14, ethy	lene-manuf		100
by-product			
Ethylbenzene		100-41-4	0 - 30
2,3-Dihydro-1H-Indene	o di o o o	496-11-7	0 - 30
Exo-Tetrahydrodicyclopent Endo-tricyclodecane	adiene	2825-82-3 2825-83-4	0 - 30 0 - 30
Xylenes		1330-20-7	0 - 10
Cumene		98-82-8	0 - 5
Ethyltoluene		25550-14-5	0 - 5
Toluene		108-88-3	0 - 5
Naphthalene		91-20-3	0 - 1
1-Methylnaphthalene		90-12-0	0 - 1
2-Methylnaphthalene		91-57-6	0 - 1
1,2,4-Trimethylbenzene Benzene		95-63-6	0 - 1
Benzene		71-43-2	0 - 0.01
TION 4: First aid measure	S		
General advice	· Move	out of dangerous a	ea. Consult a physician. Show this
			t to the doctor in attendance. Materia
	may p	roduce a serious, p	otentially fatal pneumonia if
	swallo	wed or vomited.	
lf inholod			control contor immediately. If
If inhaled			ocontrol center immediately. If overy position and seek medical
	advice	· · ·	overy position and seek medical
In case of skin contact	: If skin	irritation persists, c	all a physician. If on skin, rinse well
		ater. If on clothes,	
In anno of ave contact	. Fluck	ovoo with water at	o proposition . Domovio contact
In case of eye contact			a precaution. Remove contact deve. Keep eye wide open while
			ersists, consult a specialist.
		. in eye initiation pe	
If swallowed	: Keep	respiratory tract clea	ar. Never give anything by mouth to

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an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

Flash point	:	40.6-57.2°C (105.1-135.0°F)
		Method: ASTM D-6450 CCFP
Autoignition temperature	:	314.44°C (597.99°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 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. 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 a naked flame or any 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.
TION 6: Accidental release	me	asures
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).
TION 7: Handling and stora	an	

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: 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.			
: Do not spray on a naked flame or any 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.			
: Prevent unauthorized access. 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.			
: Fuel Blendstock, Solvent			

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Components	Basis	Value	Control parameters	Note
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	
*	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	A3,
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,
Toluene	ACGIH	TWA	20 ppm,	A4,
	OSHA Z-2	TWA	200 ppm,	
	OSHA Z-2	CEIL	300 ppm,	
	OSHA Z-2	Peak	500 ppm,	
	OSHA Z-1-A	TWA	100 ppm, 375 mg/m3	
	OSHA Z-1-A	STEL	150 ppm, 560 mg/m3	
Cumene	ACGIH	TWA	50 ppm,	
	OSHA Z-1	TWA	50 ppm, 245 mg/m3	Х,
	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	Х,
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	
1-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
2-Methylnaphthalene	ACGIH	TWA	0.5 ppm,	A4, Skin,
1,2,4-Trimethylbenzene	ACGIH	TWA	25 ppm,	
	OSHA Z-1-A	TWA	25 ppm, 125 mg/m3	
	otations enclosed are those arcinogen with unknown rele human carcinogen		e proposed in the NIC	
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eye irr Eye irritation

hematologic eff Skin Danger of cutaneous absorption URT irr Upper Respiratory Tract irritation X Skin notation

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	1995-03-01
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 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
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
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	2017-09-01
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 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
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	1995-03-01

Biological exposure indices

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Substance name	CAS-No.	Control parameters	Sampling time	Update
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid: 0.15 g/g creatinine Nonspecific (Urine)	End of shift (As soon as possible after exposure ceases)	2016-03-01
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
Toluene	108-88-3	Toluene: 0.02 mg/l (In blood)	Prior to last shift of workweek	2010-03-01
		Toluene: 0.03 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
		o-Cresol: 0.3 mg/g Creatinine Background (Urine) With hydrolyses ()	End of shift (As soon as possible after exposure ceases)	2010-03-01

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits.

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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:. Full-Face Supplied-Air Respirator. 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.
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:. Footwear protecting against chemicals.
Hygiene measures	:	Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

SECTION 9: Physical and chemical properties

Information on basic phys	Information on basic physical and chemical properties		
Appearance			
Physical state Color Odor	: liquid : Colorless : Aromatic		
Safety data			
Flash point	: 40.6-57.2°C (105.1-135.0°F) Method: ASTM D-6450 CCFP		
Lower explosion limit	: 1 %(V)		
Upper explosion limit	: 7.2 %(V)		
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Oxidizing properties	: No
Autoignition temperature	: 314.44°C (597.99°F)
Thermal decomposition	: No data available
Molecular formula	: UVCB
Molecular weight	: Not applicable
рН	: Not applicable
Freezing point	: -56.6°C (-69.9°F)
Boiling point/boiling range	: 132°C (270°F)
Vapor pressure	: 0.20 - 0.95 PSI at 38°C (100°F) Method: Reid
Relative density	: 0.92 at 15.6 °C (60.1 °F)
Density	: 922.7 g/l
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: <1 cSt at 37.8°C (100.0°F)
Relative vapor density	: 5.1 (Air = 1.0)
Evaporation rate	: 5.4
SECTION 10: Stability and reactive	vity
Reactivity	: Stable under recommended storage conditions.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ctions
Hazardous reactions	: Hazardous reactions: Vapors may form explosive mixture with air.
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Conditions to avoid	: Heat, flames and sparks.
	: No data available
Thermal decomposition	
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	rmation
Heavy Aromatic Distillate (Acute oral toxicity	HAD) : LD50 Oral: > 6,000 mg/kg Species: Rat
Heavy Aromatic Distillate (Acute inhalation toxicity	HAD) : LC50: 8.5 mg/l Exposure time: 4 h Species: Rat Test atmosphere: vapor Test substance: yes
Heavy Aromatic Distillate (Acute dermal toxicity	HAD) : LD50 Dermal: > 2,000 mg/kg Species: Rabbit Test substance: yes
Heavy Aromatic Distillate (Skin irritation	HAD) : irritating
	May cause skin irritation in susceptible persons.
Heavy Aromatic Distillate (Eye irritation	 HAD) No eye irritation. largely based on animal evidence. Vapors may cause irritation to the eyes, respiratory system and the skin.
Heavy Aromatic Distillate (Sensitization	HAD) : Did not cause sensitization on laboratory animals.
Heavy Aromatic Distillate (Repeated dose toxicity	HAD) : Species: Rat, male and female Sex: male and female Application Route: Dermal Dose: 500 mg/kg, 1500 mg/kg Exposure time: 4 weeks
	Method: Based on product or component testing, long term repeated exposure may cause damage to the following organs: Target Organs: Auditory organs, Eyes, Blood Estimated based on individual component values.
Genotoxicity in vitro	
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Ethylbenzene	: Test Type: Ames test Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Xylenes	Test Type: Ames test Result: negative
	Test Type: Mouse lymphoma assay Result: negative
Cumene	Test Type: Ames test Result: negative
	Test Type: Cytogenetic assay Result: negative
	Test Type: HGPRT assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Toluene	Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Mouse lymphoma assay Result: negative
	Test Type: Cytogenetic assay Result: negative
Naphthalene	Test Type: Ames test Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
Benzene	Test Type: Ames test Result: negative
	Test Type: Cytogenetic assay Result: positive
	Test Type: Mouse lymphoma assay Result: positive
	Test Type: Sister Chromatid Exchange Assay Result: negative
Genotoxicity in vivo	
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Ethylbenzene :	Test Type: Mouse micronucleus assay Species: Mouse Result: negative
Exo- Tetrahydrodicyclopentadiene	Test Type: Sister chromatid exchange Result: negative
Xylenes	Test Type: Mouse micronucleus assay Result: negative
Cumene	Test Type: Mouse micronucleus assay Result: negative
Toluene	Test Type: Cytogenetic assay Result: negative
	Test Type: Mouse micronucleus assay Result: negative
Naphthalene	Test Type: Mouse micronucleus assay Result: negative
Benzene	Test Type: Mouse micronucleus assay Result: positive
Heavy Aromatic Distillate (HAD) Carcinogenicity :	Method: Estimated based on individual component values. Remarks: Suspect cancer hazard
Heavy Aromatic Distillate (HAD) Reproductive toxicity	This information is not available.
Heavy Aromatic Distillate (HAD) Developmental Toxicity) This information is not available.
Heavy Aromatic Distillate (HAD) Aspiration toxicity : Toxicology Assessment	May be fatal if swallowed and enters airways.
Heavy Aromatic Distillate (HAD) CMR effects	Carcinogenicity: Suspected of causing cancer. Mutagenicity: This information is not available. Teratogenicity: Suspected of damaging the unborn child.
Heavy Aromatic Distillate (HAD) Further information	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
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SECTION 12: Ecological information

Toxicity to fish	: Toxic to fish. Estimated based on individual component values.	
Toxicity to daphnia and other aquatic invertebrates	: Toxic to aquatic organisms. Estimated based on individual component values.	
Toxicity to algae	: Toxic to algae. Estimated based on individual component values.	
M-Factor (3aalpha,4alpha,7alpha,7aal pha)-octahydro-4,7-methano-	: M-Factor (Acute Aquat. Tox.) 1	
1H-indene	M-Factor (Chron. Aquat. Tox.) 1	
Toxicity to daphnia and othe	r aquatic invertebrates (Chronic toxicity)	
Ethylbenzene	: NOEC: 1 mg/l Exposure time: 7 d Species: Daphnia pulex (Water flea) semi-static test Analytical monitoring: yes	
Biodegradability	: This material is not expected to be readily biodegradable.	
Elimination information (persis	ence and degradability)	
Bioaccumulation	: This material is not expected to bioaccumulate.	
Mobility	: No data available	
Results of PBT assessment	: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).	
Additional ecological information	: An environmental hazard cannot be excluded in the event unprofessional handling or disposal., Toxic to aquatic life w long lasting effects.	
Ecotoxicology Assessment		
Short-term (acute) aquatic hazard	: Toxic to aquatic life.	
Long-term (chronic) aquatic hazard	: Toxic to aquatic life with long lasting effects.	

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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. 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 SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, (40.6 - 57.2 °C c.c.), MARINE POLLUTANT, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III

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

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

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

30,UN1268,PETROLEUM DISTILLATES, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

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

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS, (DISTILLATES (PETROLEUM), HYDROTREATED LIGHT)

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TION 15: Regulatory infor	mation
National legislation	
SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Aspiration hazard Skin corrosion or irritation
CERCLA Reportable Quantity	: 100 lbs Xylenes 100 lbs Toluene 1000 lbs Ethylbenzene 10 lbs
SARA 302 Reportable Quantity	 This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold Planning Quantity SARA 304 Reportable Quantity	 This material does not contain any components with a section 302 EHS TPQ. 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: Ethylbenzene - 100-41-4 Xylenes - 1330-20-7 Toluene - 108-88-3 Cumene - 98-82-8 Naphthalene - 91-20-3 1,2,4-Trimethylbenzene - 95-63-6
Clean Air Act	

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Potential Class II (duct neither contains, nor was manuf DDS as defined by the U.S. Clean Ai ot. A, App.A + B).	
	sted as HAP under the U.S. Clean A Ethylbenzene - 100-41-4 Xylenes - 1330-20-7 Toluene - 108-88-3 Cumene - 98-82-8 Naphthalene - 91-20-3	ir Act, Section 112 (40 CFR 61)
This product does not contain a Accidental Release Prevention	any chemicals listed under the U.S. C (40 CFR 68.130, Subpart F).	lean Air Act Section 112(r) for
	sted under the U.S. Clean Air Act Se	ction 111 SOCMI Intermediate
Final VOC's (40 CFR 60.489): :	Ethylbenzene - 100-41-4 Xylenes - 1330-20-7	
	Toluene - 108-88-3 Cumene - 98-82-8	
	1-Methylnaphthalene - 90-12-0 2-Methylnaphthalene - 91-57-6	
US State Regulations		
Pennsylvania Right To Know		
:	Hydrocarbons, C9-14, ethylene-ma 34-1	nufby-product - 68514-
	Ethylbenzene - 100-41-4	
	2,3-Dihydro-1H-Indene - 496-11-7 (1R,7S)-Tricyclo[5.2.1.02,6]decane	-
	Endo-tricyclodecane - 2825-83-4 Xylenes - 1330-20-7	
	Toluene - 108-88-3	
	Cumene - 98-82-8 Ethyltoluene - 25550-14-5	
	Naphthalene - 91-20-3 1-Methylnaphthalene - 90-12-0	
	1,2,4-Trimethylbenzene - 95-63-6 Benzene - 71-43-2	
California Prop. 65 : Components	WARNING: This product can expose [listed below], which is [are] known cause cancer. For more informatic www.P65Warnings.ca.gov/food.	to the State of California to
	Ethylbenzene Cumene	100-41-4
	Cumene	98-82-8
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	Naphthalene Benzene	91-20-3 71-43-2
	Toluene Benzene	108-88-3 71-43-2
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Philippines PICCS Taiwan TCSI Korea KECI China IECSC	 All substances listed a This product contains are not on the Canadia 	on compliance with the inventory as active on the TSCA inventory one or several components that an DSL nor NDSL. In compliance with the inventory in the inventory
SECTION 16: Other information		
NFPA Classification :	Health Hazard: 2 Fire Hazard: 2 Reactivity Hazard: 0	2 0
Further information		
Legacy SDS Number :	PE0047	
Significant changes since the las	st version are highlighted in the	margin. This version replaces all
The information in this SDS pert	ains only to the product as ship	ped.
not to be considered a warranty	e of its publication. The informat processing, storage, transporta or quality specification. The info I may not be valid for such mate	tion given is designed only as a ation, disposal and release and is
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k	Key or legend to abbreviations and a	cronyms use	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	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%	ATE	Acute toxicity estimate