

Version 1.11 Revision Date 2023-11-06

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

Product information

Product Name : Heavy Aromatic Distillate (HAD)

Material : 1037387, 1059199, 1059200, 1037388, 1037386

Use : Fuel Blendstock, Solvent

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)

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) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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)

SDS Number:100000010939 1/19

Heavy Aromatic Distillate (HAD)

Version 1.11 Revision Date 2023-11-06

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

E-mail address : SDS@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.

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 1,

Eyes, Blood

Specific target organ toxicity - repeated exposure, Category 2,

Inhalation, Auditory organs, color vision

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. 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.

H372: Causes damage to organs (Eyes, Blood) through

prolonged or repeated exposure.

Version 1.11 Revision Date 2023-11-06

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.

P270 Do not eat, drink or smoke when using this product.

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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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 container tightly closed.

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.

3/19

Carcinogenicity:

IARC Group 2B: Possibly carcinogenic to humans

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

NTP Reasonably anticipated to be a human carcinogen

Cumene 98-82-8 Naphthalene 91-20-3

Version 1.11 Revision Date 2023-11-06

SECTION 3: Composition/information on ingredients

Synonyms : HAD

Steam Cracked Distillates (Petroleum) Heavy Aromatic Distillate Gas Blend

Petroleum Distillates

Molecular formula : UVCB

Component	CAS-No.	Weight %
Distillates (petroleum), Hydrotreated	64742-47-8	100
light		
Ethylbenzene	100-41-4	0 - 30
2,3-Dihydro-1H-Indene	496-11-7	0 - 30
Exo-Tetrahydrodicyclopentadiene	2825-82-3	0 - 30
Endo-tricyclodecane	2825-83-4	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	95-63-6	0 - 1
Benzene	71-43-2	0 - 0.01

SECTION 4: First aid measures

General advice : Move out of dangerous area. Consult a physician. 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 : Call a physician or poison control center immediately. If

unconscious, place in recovery position and seek medical

advice.

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 : 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.

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 : 40.6-57.2°C (105.1-135.0°F)

Method: ASTM D-6450 CCFP

SDS Number:100000010939 4/19

Heavy Aromatic Distillate (HAD)

Version 1.11 Revision Date 2023-11-06

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.

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.

: Prevent product from entering drains. Prevent further leakage **Environmental precautions**

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

Contain spillage, and then collect with non-combustible Methods for cleaning up

> 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.

SDS Number:100000010939 5/19

Version 1.11 Revision Date 2023-11-06

Advice on protection against fire and explosion 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.

Storage

Requirements for storage areas and containers

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.

Use Fuel Blendstock, Solvent

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
Distillates (petroleum), Hydrotreated light	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
3	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	ACGIH	TWA	200 mg/m3	A3, Skin,
	OSHA Z-1	TWA	5 mg/m3	Mist
	OSHA Z-1-A	TWA	5 mg/m3	Mist
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	Χ,
	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	Χ,
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	

Adopted values or notations enclosed are those for which changes are proposed in the NIC

eye dam Eye damage eye irr Eye irritation hematologic eff Hematologic effects

Danger of cutaneous absorption **URT** irr Upper Respiratory Tract irritation

Skin notation

⁽b) The value in mg/m3 is approximate.A3 Confirmed animal carcinogen with unknown relevance to humans

Not classifiable as a human carcinogen A4

Version 1.11 Revision Date 2023-11-06

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Distillates (petroleum), Hydrotreated light	64742-47-8	Immediately Dangerous to Life or Health Concentration Value 2500 mg/m³	2017-09-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	1995-03-01
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	
Distillates (petroleum), Hydrotreated light	64742-47-8	Immediately Dangerous to Life or Health Concentration Value 2500 mg/m³	
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 parts per million	
Xylenes	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 parts per million	
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 parts per million	
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 parts per million	

Biological exposure indices

US

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

SDS Number:100000010939 7/19

Version 1.11 Revision Date 2023-11-06

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:. 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 physical and chemical properties

Appearance

Physical state : liquid
Color : Colorless
Odor : 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)

SDS Number:100000010939 8/19

Heavy Aromatic Distillate (HAD)

Version 1.11 Revision Date 2023-11-06

Upper explosion limit : 7.2 %(V)

Oxidizing properties : No

Autoignition temperature : 314.44°C (597.99°F)

Thermal decomposition : No data available

Molecular formula : UVCB

Molecular weight : Not applicable

pH : 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 reactivity

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 reactions

Hazardous reactions : Further information: No decomposition if stored and applied as

SDS Number:100000010939 9/19

Version 1.11 Revision Date 2023-11-06

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid : Heat, flames and sparks.

Thermal decomposition : No data available

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

SECTION 11: Toxicological information

Heavy Aromatic Distillate (HAD)

Acute oral toxicity : LD50 Oral: > 6,000 mg/kg

Species: Rat

Heavy Aromatic Distillate (HAD)

Acute inhalation toxicity : LC50: 8.5 mg/l

Exposure time: 4 h Species: Rat

Test atmosphere: vapor Test substance: yes

Heavy Aromatic Distillate (HAD)

Acute dermal toxicity : LD50 Dermal: > 2,000 mg/kg

Species: Rabbit Test substance: yes

Heavy Aromatic Distillate (HAD)

Skin irritation : irritating

May cause skin irritation in susceptible persons.

Heavy Aromatic Distillate (HAD)

Eye irritation: No eye irritation. largely based on animal evidence.

Vapors may cause irritation to the eyes, respiratory system

and the skin.

Heavy Aromatic Distillate (HAD)

Sensitization : Did not cause sensitization on laboratory animals.

Heavy Aromatic Distillate (HAD)

Repeated dose toxicity : 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

SDS Number:100000010939 10/19

Heavy Aromatic Distillate (HAD)

Version 1.11 Revision Date 2023-11-06

Estimated based on individual component values.

Genotoxicity in vitro

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

11/19

Result: negative

Benzene Test Type: Ames test

Result: negative

Version 1.11 Revision Date 2023-11-06

Test Type: Cytogenetic assay

Result: positive

Test Type: Mouse lymphoma assay

Result: positive

Test Type: Sister Chromatid Exchange Assay

Result: negative

Genotoxicity in vivo

Ethylbenzene : Test Type: Mouse micronucleus assay

Species: Mouse Result: negative

Exo- Test Type: Sister chromatid exchange

Tetrahydrodicyclopentadiene 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 : May be fatal if swallowed and enters airways.

Toxicology Assessment

Heavy Aromatic Distillate (HAD)

CMR effects : Carcinogenicity:

Suspected of causing cancer.

Mutagenicity:

SDS Number:100000010939 12/19

Version 1.11 Revision Date 2023-11-06

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.

SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish : Toxic to fish.

Estimated based on individual component values.

Toxicity to daphnia and

: Toxic to aquatic organisms.

M-Factor (Acute Aquat. Tox.)

other aquatic invertebrates

Estimated based on individual component values.

Toxicity to algae : Toxic to algae.

Estimated based on individual component values.

1

1

M-Factor

(3aalpha,4alpha,7alpha,7aal

pha)-octahydro-4,7-methano-

1H-indene M-Factor (Chron. Aquat. Tox.)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Distillates (petroleum), : NOEC: 0.48 mg/l

Hydrotreated light Exposure time: 21 Days

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

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 (persistence 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

SDS Number:100000010939 13/19

Version 1.11 Revision Date 2023-11-06

persistent, bioaccumulating and toxic (PBT).

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

hazard

: Toxic to aquatic life.

Long-term (chronic) aquatic : 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.

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.

Empty remaining contents. Dispose of as unused product. Contaminated packaging

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))

SDS Number:100000010939 14/19

Version 1.11 Revision Date 2023-11-06

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)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

10 lbs Benzene

100 lbs Toluene

1000 lbs Ethylbenzene

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.

SDS Number:100000010939 15/19

Version 1.11 Revision Date 2023-11-06

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

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 112 (40 CFR 61):

: Ethylbenzene - 100-41-4 Xylenes - 1330-20-7 Toluene - 108-88-3 Cumene - 98-82-8 Naphthalene - 91-20-3

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or 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

: Distillates (petroleum), Hydrotreated light - 64742-47-8

Ethylbenzene - 100-41-4

2,3-Dihydro-1H-Indene - 496-11-7

SDS Number:100000010939 16/19

Version 1.11 Revision Date 2023-11-06

(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 you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to

www.P65Warnings.ca.gov/food.

 Ethylbenzene
 100-41-4

 Cumene
 98-82-8

 Naphthalene
 91-20-3

 Benzene
 71-43-2

WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Toluene 108-88-3 Benzene 71-43-2

Notification status

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 : All components of this product are on the Canadian

TSCA inventory

DSL

Australia AIIC : 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 Philippines PICCS : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory Korea KECI : A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

China IECSC : On the inventory, or in compliance with the inventory

SDS Number:100000010939 17/19

Version 1.11 Revision Date 2023-11-06

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Further information

Legacy SDS Number : PE0047

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	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect	
	Chemicals		Level	
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency	
	List			
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational	
	Substances List		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	OSHA	Occupational Safety & Health	
	Scenario Tool		Administration	
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit	
	Chemicals Association		·	
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	
	Chemical Substances		Commercial Chemical Substances	
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic	
	Values			
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	TLV	Threshold Limit Value	
	on Cancer			
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average	
	Substances in China			
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act	

SDS Number:100000010939 18/19

Heavy Aromatic Distillate (HAD)

Version 1.11 Revision Date 2023-11-06

	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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

SDS Number:100000010939 19/19