

Benzene, Toluene, Xylene (BTX) / Hydrogenated Pygas (HPG)

Version 4.1 Revision Date 2016-02-19

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

Product information

Product Name : Benzene, Toluene, Xylene (BTX) / Hydrogenated Pygas (HPG)

Material : 1015406, 1037554

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: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group

E-mail address : 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.

Emergency Overview

Danger

Form: Liquid Physical state: Liquid Color: Colorless Odor: Mild

OSHA Hazards : Flammable Liquid, Moderate skin irritant, Aspiration hazard,

Carcinogen, Moderate respiratory irritant, Reproductive hazard,

Mutagen, Specific target organ systemic toxicity - single

exposure

Classification

: Flammable liquids, Category 2

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Skin irritation, Category 2

Germ cell mutagenicity , Category 1B Carcinogenicity , Category 1A Reproductive toxicity , Category 2

Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, Central nervous system Specific target organ systemic toxicity - repeated exposure,

Category 1, Blood, Eyes

Specific target organ systemic toxicity - repeated exposure , Category 2 , Auditory organs, Liver, Kidney, Nervous system Specific target organ systemic toxicity - repeated exposure ,

Category 2, Inhalation, Auditory organs

Aspiration hazard, Category 1

Labeling

Symbol(s) :







Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness.

H340: May cause genetic defects.

H350: May cause cancer.

H361: Suspected of damaging fertility or the unborn child. H372: Causes damage to organs (Blood, Eyes, Auditory organs, Liver, Kidney, Nervous system) through prolonged or repeated exposure.

H373: May cause damage to organs (Auditory organs) 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/vapor/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 or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off

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immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor/ physician if you feel unwell.

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.

Carcinogenicity:

IARC Group 1: Carcinogenic to humans

Benzene 71-43-2 Group 2B: Possibly carcinogenic to humans

Hydrotreated Light Distillate 68410-97-9
Ethylbenzene 100-41-4

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

NTP Known to be human carcinogen

Benzene 71-43-2

Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

ACGIH Confirmed human carcinogen

Benzene 71-43-2

SECTION 3: Composition/information on ingredients

Synonyms : Hexane, Light hydrotreated distillate

BTX Concentrate

Molecular formula : UVCB

Component	CAS-No.	Weight %
Hydrotreated Light Distillate	68410-97-9	100
Benzene	71-43-2	0 - 80
Toluene	108-88-3	0 - 30
Benzene, dimethyl-	1330-20-7	0 - 10
Ethylbenzene	100-41-4	0 - 10
n-Heptane	142-82-5	0 - 5

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n-hexane	110-54-3	0 - 10	
Methylcyclopentane	96-37-7	0 - 5	
Naphthalene	91-20-3	0 - 1	
Cyclopentane	287-92-3	0 - 1	
Cumene	98-82-8	0 - 1	
1,2,4-Trimethylbenzene	95-63-6	0 - 1	

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data

> sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : Consult a physician after significant exposure. If unconscious

place in recovery position and seek medical advice.

If skin irritation persists, call a physician. If on skin, rinse well In case of skin contact

with water. If on clothes, remove clothes.

: Flush eyes with water as a precaution. Remove contact In case of eye 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

: 4 °C (39 °F) Flash point

Autoignition temperature : No data available

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.

: Collect contaminated fire extinguishing water separately. This Further information

> must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity

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discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon monoxide.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

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

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

and lakes or drains inform respective authorities.

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

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. 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.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames.

hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers

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

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Ingredients	Basis	Value	Control parameters	Note
Hydrotreated Light Distillate	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
, ,	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
Benzene	ACGIH	TWA	0.5 ppm,	BEI, A1, Skin,
	ACGIH	STEL	2.5 ppm,	BEI, A1, Skin,
	OSHA Z-1-A	TWA	1 ppm,	
	OSHA Z-1-A	CEIL	5 ppm,	
	OSHA Z-2	Peak	50 ppm,	(a),
	OSHA 29 CFR 1910.1028(c)	TWA	1 ppm,	
	OSHA 29 CFR 1910.1028(c)	STEL	5 ppm,	
	OSHA CARC	PEL	1 ppm,	
	OSHA CARC	STEL	5 ppm,	
Toluene	ACGIH	TWA	20 ppm,	BEI, 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	
Benzene, dimethyl-	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
•	ACGIH	TWA	100 ppm,	BEI, A4,
	ACGIH	STEL	150 ppm,	BEI, A4,
	OSHA Z-1-A	STEL	150 ppm, 655 mg/m3	
	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
Ethylbenzene	OSHA Z-1	TWA	100 ppm, 435 mg/m3	(b),
•	OSHA Z-1-A	TWA	100 ppm, 435 mg/m3	
	OSHA Z-1-A	STEL	125 ppm, 545 mg/m3	
	ACGIH	TWA	20 ppm,	
n-hexane	ACGIH	TWA	50 ppm,	BEI, Skin,
	OSHA Z-1	TWA	500 ppm, 1,800 mg/m3	(b),
	OSHA Z-1-A	TWA	50 ppm, 180 mg/m3	
Methylcyclopentane	ACGIH	TWA	500 ppm,	
	ACGIH	STEL	1,000 ppm,	
	OSHA Z-1-A	TWA	500 ppm, 1,800 mg/m3	
	OSHA Z-1-A	STEL	1,000 ppm, 3,600 mg/m3	
n-Heptane	OSHA Z-1	TWA	500 ppm, 2,000 mg/m3	(b),
•	OSHA Z-1-A	TWA	400 ppm, 1,600 mg/m3	
	OSHA Z-1-A	STEL	500 ppm, 2,000 mg/m3	
	ACGIH	TWA	400 ppm,	
	ACGIH	STEL	500 ppm,	
Naphthalene	ACGIH	TWA	10 ppm,	(), A4, Skin,
•	ACGIH	STEL	15 ppm,	(), A4, Skin,
	OSHA Z-1	TWA	10 ppm, 50 mg/m3	(b),
	OSHA Z-1-A	TWA	10 ppm, 50 mg/m3	
	OSHA Z-1-A	STEL	15 ppm, 75 mg/m3	
Cyclopentane	ACGIH	TWA	600 ppm,	
· ·	OSHA Z-1-A	TWA	600 ppm, 1,720 mg/m3	
Cumene	ACGIH	TWA	50 ppm,	
	OSHA Z-1	TWA	50 ppm, 245 mg/m3	X, (b),
	OSHA Z-1-A	TWA	50 ppm, 245 mg/m3	Χ,
1,2,4-Trimethylbenzene	ACGIH	TWA	25 ppm,	

- Adopted values or notations enclosed are those for which changes are proposed in the NIC
 Adopted values to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.
- The value in mg/m3 is approximate. Confirmed human carcinogen
- A4 Not classifiable as a human carcinogen
- BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)
- Skin Danger of cutaneous absorption
 - X Skin designation

Hazardous components without workplace control parameters

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 ppm	1995-03-01
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 ppm	1995-03-01

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Benzene, dimethyl-	1330-20-7	Immediately Dangerous to Life or Health Concentration Value 900 ppm	1995-03-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 ppm	1995-03-01
n-hexane	110-54-3	Immediately Dangerous to Life or Health Concentration Value 1100 ppm	1995-03-01
n-Heptane	142-82-5	Immediately Dangerous to Life or Health Concentration Value 750 ppm	1995-03-01
Naphthalene	91-20-3	Immediately Dangerous to Life or Health Concentration Value 250 ppm	
Cumene	98-82-8	Immediately Dangerous to Life or Health Concentration Value 900 ppm	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
Benzene	71-43-2	S-Phenylmercapturic acid: 0.025 mg/g Creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2008-01-01
		t,t-Muconic acid: 0.5 mg/g Creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2008-01-01
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 (Urine)	End of shift (As soon as possible after exposure ceases)	2010-03-01
Benzene, dimethyl-	1330-20-7	Methylhippuric acids: 1.5 g/g creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	2013-03-01
Ethylbenzene	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid: 0.7 g/g creatinine (Urine)	End of shift at end of workweek	2013-03-01
n-hexane	110-54-3	2,5-Hexanedione: 0.4 mg/l (Urine)	End of shift at end of workweek	2007-01-01

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 : Wear a supplied-air NIOSH approved respirator unless

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

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material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

Protective measures : Wear suitable protective equipment. Avoid contact with skin.

When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Liquid
Physical state : Liquid
Color : Colorless
Odor : Mild

Odor Threshold : No data available

Safety data

Flash point : 4 °C (39 °F)

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : UVCB

Molecular weight : 81.2 g/mol

pH : Not applicable

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Pour point : No data available

Boiling point/boiling range : 66 - 232 °C (151 - 450 °F)

Vapor pressure : No data available

Relative density : 0.86

at 21.6 °C (70.9 °F)

Water solubility : Negligible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : 2.8

Percent volatile : > 99 %

SECTION 10: Stability and reactivity

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition

products

: Carbon monoxide

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

SECTION 11: Toxicological information

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Acute oral toxicity : LD50 Oral: > 5,000 mg/kg

Species: Rat

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Acute inhalation toxicity : LC50: > 12400 ppm

Exposure time: 4 h Species: Rat

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

Information refers to the main ingredient.

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Skin irritation : Skin irritation

May cause skin irritation in susceptible persons.

Benzene, Toluene, Xylene (BTX) / Hydrogenated Pygas (HPG)

Eye irritation : No eye irritation

Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Sensitization : Did not cause sensitization on laboratory animals.

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Repeated dose toxicity : Method: Based on product or component testing, long term

repeated exposure may cause damage to the following

organs:

Target Organs: Auditory organs, Eyes, Blood, Nervous system

Estimated based on individual component values.

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Carcinogenicity : Method: Estimated based on individual component values.

Remarks: Suspect cancer hazard

Reproductive toxicity

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

NOAEL Parent: 2000 ppm

n-Heptane Species: Rat

Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 hr/d, 5 d/wk

Test period: 13 wk

Method: OECD Test Guideline 416

NOAEL Parent: 9000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm

n-hexane Species: Rat

Sex: male

Application Route: Inhalation

Dose: 5,000 ppm

Number of exposures: 16 hr/d, 6 d/wk

Test period: 6 wks

permanent testicular damage characterized by loss of germ-

cell line

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Cyclopentane Species: Rat

Sex: males

Application Route: Inhalation Dose: 0, 500, 2000, 7000 ppm Number of exposures: 6 h/day NOAEL Parent: 2000 ppm NOAEL F1: 2000 ppm NOAEL F2: 2000 ppm

Developmental Toxicity

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 500, 2000 ppm

Test period: 95 d

NOAEL Teratogenicity: 400-750 ppm

Benzene, dimethyl- Species: Rat

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

Species: Mouse

Application Route: oral gavage Dose: 0, 780, 1960, 2619 mg/kg Number of exposures: 3 times/d

Test period: GD 6-15

NOAEL Teratogenicity: 780 mg/kg NOAEL Maternal: 780 mg/kg

n-Heptane Species: Rat

Application Route: Inhalation
Dose: 0, 900, 3000, 9000 ppm
Exposure time: GD6-15
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: 9000 ppm
NOAEL Maternal: 3000 ppm

n-hexane Species: Rat

Application Route: Inhalation Dose: 200, 1,000, 5,000 ppm Number of exposures: 20 hr/d, daily

Test period: GD 6-20

NOAEL Teratogenicity: 200 ppm NOAEL Maternal: 200 ppm

Species: Mouse

Application Route: Inhalation Dose: 200, 1,000, 5,000 ppm Number of exposures: 20 hr/d, daily

Test period: GD 6-17

NOAEL Maternal: 1,000 ppm

Naphthalene Species: Rabbit

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

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NOAEL Teratogenicity: 400 mg/kg

Cumene Species: Rat

Application Route: Inhalation Dose: 0, 100, 500, 1200 ppm Number of exposures: 6 h/d

Test period: GD 6-15

NOAEL Teratogenicity: > 1200 ppm

NOAEL Maternal: 100 ppm

Species: Rabbit

Application Route: Inhalation Dose: 0, 500, 1200, 2300 ppm Number of exposures: 6 h/d

Test period: GD 6-18

NOAEL Teratogenicity: > 2300 ppm

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Aspiration toxicity : May be fatal if swallowed and enters airways.

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

Toxicology Assessment

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CMR effects : Carcinogenicity:

May cause cancer. Mutagenicity:

May cause genetic defects.

Teratogenicity:

May damage the unborn child.

Reproductive toxicity:

Suspected of damaging fertility.

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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 : Estimated based on individual component values.

Toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

: Estimated based on individual component values.

Toxic to aquatic organisms.

Toxicity to algae : Estimated based on individual component values.

Toxic to algae.

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylbenzene : NOEC: 1 mg/l

Exposure time: 7 d

Species: Daphnia pulex (Water flea)

semi-static test

Analytical monitoring: yes

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Biodegradability : Expected to be ultimately biodegradable

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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 of unprofessional handling or disposal., 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.

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

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bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, MARINE POLLUTANT, (N-HEPTANE, NAPHTHALENE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, (4 °C), MARINE POLLUTANT, (N-HEPTANE, NAPHTHALENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

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

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE, NAPHTHALENE)

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE, NAPHTHALENE)

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

UN1268, PETROLEUM PRODUCTS, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (N-HEPTANE, NAPHTHALENE)

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

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

CERCLA Reportable

Quantity

: 13 lbs

Benzene

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

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302 RQ.

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SARA 302 Threshold Planning Quantity

: No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : The following components are subject to reporting levels

established by SARA Title III, Section 313:

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

Benzene, dimethyl- - 1330-20-7 Ethylbenzene - 100-41-4 n-hexane - 110-54-3 Naphthalene - 91-20-3 Cumene - 98-82-8

1,2,4-Trimethylbenzene - 95-63-6

Clean Air Act

Potential

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

82, Subpt. A, App.A + B).

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

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

Benzene, dimethyl- - 1330-20-7 Ethylbenzene - 100-41-4 n-hexane - 110-54-3 Naphthalene - 91-20-3 Cumene - 98-82-8

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

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):

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

Benzene, dimethyl- - 1330-20-7 Ethylbenzene - 100-41-4

Cumene - 98-82-8

US State Regulations

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Pennsylvania Right To Know

: Hydrotreated Light Distillate - 68410-97-9

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

Benzene, dimethyl- - 1330-20-7 Ethylbenzene - 100-41-4

n-hexane - 110-54-3 Methylcyclopentane - 96-37-7

n-Heptane - 142-82-5 Ethyltoluene - 25550-14-5 Naphthalene - 91-20-3 Cyclopentane - 287-92-3 Cumene - 98-82-8

1,2,4-Trimethylbenzene - 95-63-6

New Jersey Right To Know

: Hydrotreated Light Distillate - 68410-97-9

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

Benzene, dimethyl- - 1330-20-7 Ethylbenzene - 100-41-4 n-hexane - 110-54-3

Methylcyclopentane - 96-37-7

n-Heptane - 142-82-5 Ethyltoluene - 25550-14-5 Naphthalene - 91-20-3 Cyclopentane - 287-92-3 Cumene - 98-82-8

1,2,4-Trimethylbenzene - 95-63-6

California Prop. 65

Ingredients

: WARNING! This product contains a chemical known in the

State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

Notification status

Europe REACH : Not in compliance with the inventory

United States of America TSCA : On the inventory, or in compliance with the inventory Canada DSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : Not in compliance with the inventory

Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

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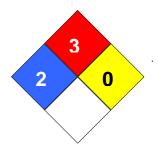
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SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 3 Reactivity Hazard: 0



Further information

Legacy SDS Number : PE0087

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		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect
	Substances		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

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	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	New Chemical Substances		
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%		

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