

Version 1.4 Revision Date 2015-10-26

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

Product information

Product Name : Toluene (Commercial Grade)

Material : 1084611, 1037620, 1037616, 1037615

Company : Saudi Chevron Phillips Company

10001 Six Pines Drive The Woodlands, TX 77380

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 1.800.424.9300 (within USA and Canada) or 703.527.3887 (outside USA and

Canada)

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: Non-viscous Physical state: Liquid Color: clear Odor: Strong gasoline

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

Moderate eye irritant, Moderate respiratory irritant, Carcinogen,

Reproductive hazard, Mutagen

Classification

: Flammable liquids , Category 2 Skin irritation , Category 2 Eye irritation , Category 2A

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

Specific target organ systemic toxicity - single exposure,

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Category 3, Central nervous system

Specific target organ systemic toxicity - repeated exposure,

Category 1, Blood

Specific target organ systemic toxicity - repeated exposure,

Category 2, 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.

H319: Causes serious eye 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, Auditory organs)

through prolonged or repeated exposure.

Precautionary Statements : Prevention:

Obtain special instructions before use. P201

Do not handle until all safety precautions have been P202 read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces.

- No smoking.

Keep container tightly closed. P233

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 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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: 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 Ethylbenzene 100-41-4

NTP Known to be human carcinogen

Benzene 71-43-2

ACGIH Confirmed human carcinogen

Benzene 71-43-2

SECTION 3: Composition/information on ingredients

Synonyms : Methylbenzene

Toluene

Benzene, methyl-

Molecular formula : C7H8

Component	CAS-No.	Weight %
Toluene	108-88-3	97 - 100
Benzene	71-43-2	0 - 2.5
Ethylbenzene	100-41-4	0.1 - 2

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.

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

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with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water. Remove contact

lenses. Protect unharmed eye. Keep eye wide open while

rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : 4.4 °C (39.9 °F)

Autoignition temperature : 528.8 °C (983.8 °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 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.

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,

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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.

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

US

Ingredients	Basis	Value	Control parameters	Note
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	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,	
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,	

- (a) This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.
- (b) The value in mg/m3 is approximate.
- A1 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)

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Skin Danger of cutaneous absorption

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Toluene	108-88-3	Immediately Dangerous to Life or Health Concentration Value 500 ppm	1995-03-01
Benzene	71-43-2	Immediately Dangerous to Life or Health Concentration Value 500 ppm	1995-03-01
Ethylbenzene	100-41-4	Immediately Dangerous to Life or Health Concentration Value 800 ppm	1995-03-01

Biological exposure indices

US

Substance name	CAS-No.	Control parameters	Sampling time	Update
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	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
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

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 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.

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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:. Complete head face and neck protection. Rubber apron. Footwear protecting

against chemicals.

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

Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Non-viscous
Physical state : Liquid
Color : clear

Odor : Strong gasoline

Safety data

Flash point : 4.4 °C (39.9 °F)

Lower explosion limit : 1.2 %(V)

Upper explosion limit : 7.1 %(V)

Oxidizing properties : no

Autoignition temperature : 528.8 °C (983.8 °F)

Molecular formula : C7H8

Molecular weight : 92.15 g/mol

pH : Not applicable

Freezing point : -94.44 °C (-137.99 °F)

Pour point No data available

Boiling point/boiling range : 110.56 °C (231.01 °F)

Vapor pressure : 1.03 PSI

at 37.8 °C (100.0 °F)

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Relative density : 0.87

Density : 0.9 g/cm3

Water solubility : Soluble in alcohol, benzene, and ether; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : < 1.138 cSt

at 37.8 °C (100.0 °F)

Relative vapor density : 2.8

(Air = 1.0)

Evaporation rate : 4.5

Other information

Conductivity : 8 pSm

at 20 °C

SECTION 10: Stability and reactivity

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

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : Heat, flames and sparks.

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

SECTION 11: Toxicological information

Toluene (Commercial Grade)

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

Species: Rat

Method: Acute toxicity estimate

Toluene (Commercial Grade)

Acute inhalation toxicity : LC50: 24.3 mg/l

Exposure time: 4 h Test atmosphere: vapor

Method: Acute toxicity estimate

Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h Test atmosphere: vapor Method: Calculation method

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Acute dermal toxicity : LD50 Dermal: > 5,000 mg/kg

Species: Rabbit

Method: Acute toxicity estimate

Toluene (Commercial Grade)

Skin irritation : May cause skin irritation in susceptible persons.

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Eye irritation : May irritate eyes.

Toluene (Commercial Grade)

Sensitization : Did not cause sensitization on laboratory animals. Estimated

based on individual component values.

Repeated dose toxicity

Toluene : Species: Rat

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 15 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 625 ppm

Species: Mouse

Application Route: Inhalation Dose: 0, 100, 625, 1250, 3000 ppm

Exposure time: 14 wk

Number of exposures: 6.5 h/d, 5 d/wk

NOEL: 100 ppm

Benzene Species: Rat, female

Sex: female

Application Route: oral gavage Dose: 0, 25, 50, 100 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk

NOEL: < 25 mg/kg

Lowest observable effect level: 25 mg/kg

Species: Rat, male

Sex: male

Application Route: oral gavage Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wk Number of exposures: 5 d/wk

NOEL: < 50 mg/kg

Lowest observable effect level: 50 mg/kg

Species: Mouse

Application Route: oral gavage Dose: 0, 25, 50,100 mg/kg Exposure time: 103 wk NOEL: < 25 mg/kg

Ethylbenzene Species: Rat, male

Sex: male

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Application Route: Inhalation Dose: 200, 400, 600, 800 ppm Exposure time: 13 weeks

Number of exposures: 6 hours/day, 6 days/week

NOEL: 200 ppm Test substance: yes Target Organs: Ototoxicity

Carcinogenicity

Toluene : Species: Rat

Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Species: Mouse Dose: 0, 600, 1200 ppm Exposure time: 2 yrs

Number of exposures: 6.5 h/d, 5 d/wk Remarks: No evidence of carcinogenicity

Benzene Species: Rat

Sex: female

Dose: 0, 25, 50, 250 mg/kg Exposure time: 103 wks

Number of exposures: daily, 5 days/week

Test substance: yes

Remarks: zymbal gland carcinomas, squamous cell

papillomas

Species: Rat Sex: male

Dose: 0, 50, 100, 200 mg/kg Exposure time: 103 wks

Number of exposures: daily, 5 days/week

Test substance: yes

Remarks: zymbal gland carcinomas, squamous cell

papillomas

Species: Mouse Sex: male and female Dose: 25, 50, 100 mg/kg Exposure time: 103 wks

Number of exposures: daily, 5 days/week

Test substance: yes

Remarks: Clear evidence of multiple organ carcinogenicity.

Reproductive toxicity

Toluene : Species: Rat

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

Test period: 95 d

NOAEL Parent: 2000 ppm

Developmental Toxicity

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Toluene : Species: Rat

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

Test period: 95 d

NOAEL Teratogenicity: 400-750 ppm

Aspiration toxicity

Toluene : May be fatal if swallowed and enters airways.
Benzene : May be fatal if swallowed and enters airways.
Ethylbenzene : May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.

CMR effects

Toluene : Carcinogenicity: Not classifiable as a human carcinogen.

Mutagenicity: Animal testing did not show any mutagenic

effects.

Teratogenicity: Some evidence of adverse effects on

development, based on animal experiments.

Reproductive toxicity: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on

animal experiments.

Benzene Carcinogenicity: Human carcinogen.

Mutagenicity: In vivo tests showed mutagenic effects Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: Animal testing did not show any effects

on fertility.

Ethylbenzene Mutagenicity: In vivo tests did not show mutagenic effects

Teratogenicity: Did not show teratogenic effects in animal

experiments.

Reproductive toxicity: No toxicity to reproduction

Toluene (Commercial Grade)

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

Toxicity to fish

Toluene : LC50: 18 - 36 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Benzene LC50: 5.3 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

flow-through test Test substance: yes Method: OECD Test Guideline 203

Ethylbenzene LC50: 4.3 mg/l

Exposure time: 96 h

Species: Marone saxatilis (striped bass)

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Toxicity to daphnia and other aquatic invertebrates

Toluene : EC50: 3.78 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Benzene EC50: 10 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Test substance: yes Method: OECD Test Guideline 202

Ethylbenzene LC50: 2.6 mg/l

Exposure time: 96 h

Species: Mysidopsis bahia (mysid shrimp)

EC50: 2.2 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae

Toluene : EC50: 134 mg/l

Exposure time: 72 h

Species: Chlamydomonas angulosa (Green algae)

Benzene ErC50: 100 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Test substance: yes

Method: OECD Test Guideline 201

Ethylbenzene ErC50: 5.0 mg/l

Exposure time: 96 h

Species: Selenastrum capricornutum (algae)

ErC50: 7.7 mg/l Exposure time: 72 h

Species: Skeletonema costatum (Marine Algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Ethylbenzene : NOEC: 1 mg/l

Exposure time: 7 d

Species: Daphnia pulex (Water flea)

semi-static test

Analytical monitoring: yes

Elimination information (persistence and degradability)

Biodegradability : This material is expected to be readily biodegradable.

Ecotoxicology Assessment

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Acute aquatic toxicity : Toxic to aquatic life.

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

Results of PBT assessment

Toluene : Non-classified vPvB substance, Non-classified PBT substance

Benzene : This substance is not considered to be persistent.

bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

Ethylbenzene : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological

information

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

Harmful 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 bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN1294, TOLUENE, 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1294, TOLUENE, 3, II, (4.4 °C)

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IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1294, TOLUENE, 3, II

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

UN1294, TOLUENE, 3, II, (D/E)

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

UN1294, TOLUENE, 3, II

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

UN1294, TOLUENE, 3, II

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

: 400 lbs

Benzene

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

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:

: Toluene - 108-88-3 Benzene - 71-43-2 Ethylbenzene - 100-41-4

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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):

: Toluene - 108-88-3 Benzene - 71-43-2 Ethylbenzene - 100-41-4

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):

Toluene - 108-88-3 Benzene - 71-43-2 Ethylbenzene - 100-41-4

US State Regulations

Pennsylvania Right To Know

: Toluene - 108-88-3 Benzene - 71-43-2 Ethylbenzene - 100-41-4

New Jersey Right To Know

: Toluene - 108-88-3 Benzene - 71-43-2 Ethylbenzene - 100-41-4

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 : This mixture contains only ingredients which have been

subject to a pre-registration according to Regulation

(EU) No. 1907/2006 (REACH).

Switzerland CH INV : On the inventory, or in compliance with the inventory

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United States of America TSCA : On TSCA Inventory

Canada DSL : All components of this product are on the Canadian

DSL.

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 : On the inventory, or 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

SECTION 16: Other information

NFPA Classification : Health Hazard: 3

Fire Hazard: 3 Reactivity Hazard: 0



Further information

Legacy SDS Number : 2900

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

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

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

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	
CNS	Central Nervous System	NTP	National Toxicology Program	
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals	
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level	
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration	
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration	
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit	
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	

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Toluene (Commercial Grade)

Version 1.4 Revision Date 2015-10-26

	Chemical Substances		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%		