

Date of issue: 08/04/2014 Revision date: 13/04/2015

Version: 1.1

	ification of the sub	stance/mixture and of the company/undertaking
1.1. Product ident	fier	
Product form		: Mixture
Product name		: BTEX plus MTBE Standard
Product code		: AL0-101204
Product group		: Trade product
1.2. Relevant ide	ntified uses of the subs	tance or mixture and uses advised against
1.2.1. Relevant ide	entified uses	
Main use category		: Laboratory Use
Industrial/Professional	use spec	: Industrial For professional use only
Use of the substance/n	nixture	: Certified reference material for laboratory use only
1.2.2. Uses advise	d against	
No additional information	on available	
1.3. Details of th	e supplier of the safety	data sheet
Phenova		
6390 Joyce Dr. Suite 1 80403 Golden, CO - Ui		
T 1-866-942-2978 - F 1		
info@phenova.com - w		
1.4. Emergency	telephone number	
Emergency number		: ChemTel Assistance (US/Canada) 1-800-255-3924
		ChemTel Assistance (International) +1 813-248-0585
SECTION 2: Haza	rds identification	
2.1. Classificatio	on of the substance or m	nixture
Classification accord	ing to Regulation (EC) N	lo. 1272/2008 [CLP]
		- ·
Flam. Liq. 2	H225	
Acute Tox. 3 (Oral)	H301	
Acute Tox. 3 (Dermal)	H311	
Muta. 1B	H340	
Carc. 1A	H350	
STOT SE 1	H370	
Classification accord	ing to Directive 67/549/5	EC [DSD] or 1999/45/EC [DPD]
Carc.Cat.1; R45	ng to Directive 07/540/E	
Muta.Cat.2; R46		
F; R11		
T; R39/23/24/25	see section 16	
T; R39/23/24/25	see section 16	
T; R39/23/24/25 Full text of R-phrases:		
T; R39/23/24/25 Full text of R-phrases: Adverse physicocher	nical, human health and	environmental effects
T; R39/23/24/25 Full text of R-phrases: <b>Adverse physicocher</b> No additional information	nical, human health and on available	environmental effects
T; R39/23/24/25 Full text of R-phrases: <b>Adverse physicocher</b> No additional informati	nical, human health and on available	environmental effects
T; R39/23/24/25 Full text of R-phrases: Adverse physicocher No additional information 2.2. Label eleme Labeling according to	nical, human health and on available nts • Regulation (EC) No. 12	
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T; R39/23/24/25 Full text of R-phrases: Adverse physicocher No additional informatio 2.2. Label eleme Labeling according to	nical, human health and on available nts • Regulation (EC) No. 12	72/2008 [CLP]
T; R39/23/24/25 Full text of R-phrases: Adverse physicocher No additional informatio 2.2. Label eleme Labeling according to	nical, human health and on available nts • Regulation (EC) No. 12	

## **BTEX plus MTBE Standard**

### Safety Data Sheet

according to Regulation (EC) No. 453/2010

Hazardous ingredients	: benzene, methanol
Hazard statements (CLP)	<ul> <li>H225 - Highly flammable liquid and vapor</li> <li>H301+H311 - Toxic if swallowed or in contact with skin</li> <li>H340 - May cause genetic defects</li> <li>H350 - May cause cancer</li> <li>H370 - Causes damage to organs</li> </ul>
Precautionary statements (CLP)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</li> <li>P233 - Keep container tightly closed</li> <li>P260 - Do not breathe dust, fume, gas, mist, spray, vapors</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> <li>P405 - Store locked up</li> </ul>

No labeling applicable

2.3. Other hazards

### No additional information available

3.1. Substance

### Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X	98.6	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
benzene (Component)	(CAS No) 71-43-2 (EC no) 200-753-7 (EC index no) 601-020-00-8	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304
toluene (Component)	(CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
ethylbenzene (Component) substance with a Community workplace exposure limit	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	0.2	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
m-xylene (Component) substance with a Community workplace exposure limit	(CAS No) 108-38-3 (EC no) 203-576-3 (EC index no) 601-022-00-9	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
o-xylene (Component) substance with a Community workplace exposure limit	(CAS No) 95-47-6 (EC no) 202-422-2 (EC index no) 601-022-00-9	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
p-xylene (Component) substance with a Community workplace exposure limit	(CAS No) 106-42-3 (EC no) 203-396-5 (EC index no) 601-022-00-9	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
tert-Butyl Methyl Ether (MTBE) (Component) substance with a Community workplace exposure limit	(CAS No) 1634-04-4 (EC no) 216-653-1 (EC index no) 603-181-00-X	0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315
Name	Product identifier	Specific	concentration limits
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X		10) STOT SE 2, H371 STOT SE 1, H370

### SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice/attention.

according to Regulation (EC) No. 453/2010	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	<ul> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse.</li> </ul>
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after skin contact	<ul> <li>Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.</li> </ul>
Symptoms/injuries after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
4.3. Indication of any immediate medica	l attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any
	chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release mea	
6.1. Personal precautions, protective ec	
o. i. Personal precautions, protective ec	uipment and emergency procedures
6.1.1. For non-emergency personnel	uipment and emergency procedures
	: Evacuate unnecessary personnel.
6.1.1. For non-emergency personnel	
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<ul><li>6.1.1. For non-emergency personnel</li><li>Emergency procedures</li><li>6.1.2. For emergency responders</li></ul>	: Evacuate unnecessary personnel.
<ul> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> </ul>	<ul> <li>Evacuate unnecessary personnel.</li> <li>Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.</li> </ul>
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### **BTEX plus MTBE Standard**

### Safety Data Sheet

according to Regulation (EC) No. 453/2010

Incompatible materials

: Strong bases. Strong acids.

: Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Expo 8.1. Control para	osure controls/personal protection		
benzene (71-43-2)			
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm	
USA OSHA	OSHA PEL (Ceiling) (ppm)	25 ppm	

8.2. Exposure controls	
Appropriate engineering controls	: Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.
Hand protection	: Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration.
Eye protection	: Chemical goggles or safety glasses. Safety glasses.
Skin and body protection	: Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and che	emical properties
9.1. Information on basic physi	cal and chemical properties
Physical state	: Liquid
Color	: Colorless.
Odor	: characteristic.
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established. Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

according to Regulation (EC) No. 453/2010			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low temperatures. Open flame.			
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition products			
fume. Carbon monoxide. Carbon dioxide. May release flammable gases.			
<b>SECTION 11: Toxicological informatic</b>	n		
11.1. Information on toxicological effects			
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.		
BTEX plus MTBE Standard			
ATE CLP (oral)	100.000 mg/kg body weight		
ATE CLP (dermal)	300.000 mg/kg body weight		
benzene (71-43-2)			
LD50 oral rat	> 930 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg		
	bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	> 8240 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)		
LC50 inhalation rat (mg/l)	43.767 mg/l/4h (Rat; Experimental value)		
LC50 inhalation rat (ppm)	13700 ppm/4h (Rat; Experimental value)		
ATE CLP (gases)	13700.000 ppmV/4h		
ATE CLP (vapors)	43.767 mg/l/4h		
ATE CLP (dust, mist)	43.767 mg/l/4h		
toluene (108-88-3)			
LD50 oral rat	> 2000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	12223 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value)		
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat; Literature study)		
ATE CLP (dermal)	12223.000 mg/kg body weight		
ethylbenzene (100-41-4)			
LD50 oral rat	3500 mg/kg (Rat; Other; Experimental value)		
LD50 oral rat LD50 dermal rabbit	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study)		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study)		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) 3500.000 mg/kg body weight		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) 3500.000 mg/kg body weight 15415.000 mg/kg body weight		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)17.8 mg/l/4h (Rat; Literature study)4000 ppm/4h (Rat; Literature study)3500.000 mg/kg body weight15415.000 mg/kg body weight4000.000 ppmV/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) ATE CLP (vapors)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)17.8 mg/l/4h (Rat; Literature study)4000 ppm/4h (Rat; Literature study)3500.000 mg/kg body weight15415.000 mg/kg body weight4000.000 ppmV/4h17.800 mg/l/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) ATE CLP (vapors) ATE CLP (dust, mist)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)17.8 mg/l/4h (Rat; Literature study)4000 ppm/4h (Rat; Literature study)3500.000 mg/kg body weight15415.000 mg/kg body weight4000.000 ppmV/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) ATE CLP (vapors) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b>	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) 3500.000 mg/kg body weight 15415.000 mg/kg body weight 4000.000 ppmV/4h 17.800 mg/l/4h 1.500 mg/l/4h		
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LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) ATE CLP (gases) ATE CLP (uspors) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) 3500.000 mg/kg body weight 15415.000 mg/kg body weight 4000.000 ppmV/4h 17.800 mg/l/4h 1.500 mg/l/4h 5011 - 6630 mg/kg (Rat) 5011.000 mg/kg body weight		
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LD50 oral rat         LD50 dermal rabbit         LC50 inhalation rat (mg/l)         LC50 inhalation rat (ppm)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (dermal)         ATE CLP (dess)         ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat         ATE CLP (oral)         ATE CLP (oral)         ATE CLP (oral)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (dermal)         ATE CLP (dess)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value) 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) 3500.000 mg/kg body weight 15415.000 mg/kg body weight 4000.000 ppmV/4h 17.800 mg/l/4h 1.500 mg/l/4h 5011 - 6630 mg/kg (Rat) 5011.000 mg/kg body weight		
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LD50 oral rat         LD50 dermal rabbit         LC50 inhalation rat (mg/l)         LC50 inhalation rat (ppm)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (dermal)         ATE CLP (uses)         ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat         ATE CLP (oral)         ATE CLP (oral)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (oral)         ATE CLP (dermal)         ATE CLP (gases)         ATE CLP (vapors)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.800 mg/l/4h         1.500 mg/kg kg (Rat)         5011 - 6630 mg/kg kg (Rat)         5011.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.000 mg/kg body weight		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (uapors) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b>	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.800 mg/l/4h         1500 mg/l/4h         5011 - 6630 mg/kg (Rat)         5011.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1500.000 ppmV/4h         11.000 mg/l/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (gases) ATE CLP (uapors) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral) ATE CLP (oral) ATE CLP (dermal) ATE CLP (gases) ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral rat	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.800 mg/l/4h         1500 mg/l/4h         5011 - 6630 mg/kg (Rat)         5011 - 6630 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1500 ng/l/4h         1500 ng/l/4h         100.000 ppmV/4h         1100.000 mg/kg body weight         4500.000 ppmV/4h         11.000 mg/l/4h         1500 mg/l/4h         1500 mg/l/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral) ATE CLP (oral) ATE CLP (dermal) ATE CLP (upors) ATE CLP (upors) ATE CLP (upors) ATE CLP (upors) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dermal)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         15415.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.800 mg/l/4h         1500 mg/l/4h         1500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 ppmV/4h         11.000 mg/l/4h         1500 mg/l/4h         11.000 mg/kg body weight         1100.000 ppmV/4h         11.000 mg/kg body weight         1500 mg/l/4h         11.000 mg/l/4h         1500 mg/l/4h         11.000 mg/l/4h         1500 mg/l/4h         4500.000 ppmV/4h         1100.000 mg/kg body weight         1100.000 ppmV/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (upors) ATE CLP (vapors) ATE CLP (vapors) ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral rat ATE CLP (oral) ATE CLP (oral)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         1500 mg/l/4h         1.500 mg/l/4h         1.500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         11.500 mg/l/4h         11.500 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.000 mg/l/4h		
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) LC50 inhalation rat (ppm) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral rat ATE CLP (oral) ATE CLP (oral) ATE CLP (dermal) ATE CLP (upors) ATE CLP (upors) ATE CLP (upors) ATE CLP (upors) ATE CLP (oral) ATE CLP (dermal) ATE CLP (dermal) ATE CLP (dermal)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         15415.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.800 mg/l/4h         1500 mg/l/4h         1500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 ppmV/4h         11.000 mg/l/4h         1500 mg/l/4h         11.000 mg/kg body weight         1100.000 ppmV/4h         11.000 mg/kg body weight         1500 mg/l/4h         11.000 mg/l/4h         1500 mg/l/4h         11.000 mg/l/4h         1500 mg/l/4h         4500.000 ppmV/4h         1100.000 mg/kg body weight         1100.000 ppmV/4h		
LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (oral)ATE CLP (dermal)ATE CLP (vapors)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         1500 mg/l/4h         1.500 mg/l/4h         1.500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         11.500 mg/l/4h         11.500 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.000 mg/l/4h		
LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (dermal)ATE CLP (gases)ATE CLP (gases)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         1500 mg/l/4h         1.500 mg/l/4h         1.500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         11.500 mg/l/4h         11.500 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.000 mg/l/4h		
LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (uapors)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (dust, mist)ATE CLP (dust, mist) <b>p-xylene (106-42-3)</b> LD50 oral ratLD50 oral rat	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         15011 - 6630 mg/kg (Rat)         5011 - 6630 mg/kg (Rat)         5011 - 6630 mg/kg (Rat)         5011 - 0630 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.000 mg/l/4h         11.000 mg/l/4h         11.000 mg/l/4h         11.000 mg/l/4h         11.000 mg/kg body weight         1100.000 mg/kg body weight         11000 mg/kg body weight         11.000 mg/l/4h <t< td=""></t<>		
LD50 oral ratLD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (dust, mist)ATE CLP (dust, mist) <b>p-xylene (106-42-3)</b> LD50 oral ratLD50 oral ratLD50 oral ratLD50 oral ratLD50 oral ratLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.8 00 mg/l/4h         1.500 mg/kg body weight         100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/l/4h         1.500 mg/l/4h         1.500 mg/l/4h         1.500 mg/l/4h         1.500 mg/kg (Rat)         3608 mg/kg (Rat)         3608 mg/kg (Rat)         3608 mg/kg (Rat)         3608 mg/kg (Rat)         11.000 mg/l/4h         12.00 mg/l/4		
LD50 oral ratLD50 dermal rabbitLC50 inhalation rat (mg/l)LC50 inhalation rat (ppm)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (uapors)ATE CLP (dust, mist) <b>m-xylene (108-38-3)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (oral)ATE CLP (oral)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dermal)ATE CLP (dust, mist) <b>o-xylene (95-47-6)</b> LD50 oral ratATE CLP (dust, mist)ATE CLP (dust, mist) <b>p-xylene (106-42-3)</b> LD50 oral ratLD50 oral rat	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)         17.8 mg/l/4h (Rat; Literature study)         4000 ppm/4h (Rat; Literature study)         3500.000 mg/kg body weight         15415.000 mg/kg body weight         4000.000 ppmV/4h         17.8 00 mg/l/4h         15.000 mg/kg (Rat)         5011 - 6630 mg/kg (Rat)         5011 - 6630 mg/kg (Rat)         5011 - 6630 mg/kg (Rat)         5011 - 0630 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         1100.000 mg/kg body weight         11.500 mg/l/4h         11.000 mg/kg body weight         11.000 mg/kg body weight         11.000 mg/l/4h         11.500 mg/l/4h         11.500 mg/l/4h         11.000 mg/kg (Rat)         3608 mg/kg (Rat)		

p-xylene (106-42-3)		
ATE CLP (gases)	4740.000 ppmV/4h	
ATE CLP (vapors)	20.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
tert-Butyl Methyl Ether (MTBE) (1634-04-4)		
LD50 oral rat	4000 mg/kg (Rat)	
LD50 dermal rat	> 6800 mg/kg (Rat)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit)	
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat)	
LC50 inhalation rat (ppm)	23576 ppm/4h (Rat)	
ATE CLP (oral)	4000.000 mg/kg body weight	
ATE CLP (gases)	23576.000 ppmV/4h	
ATE CLP (vapors)	85.000 mg/l/4h	
ATE CLP (dust, mist)	85.000 mg/l/4h	
methanol (67-56-1)		
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)	
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)	
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)	
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)	
ATE CLP (oral)	100.000 mg/kg body weight	
ATE CLP (dermal)	300.000 mg/kg body weight	
ATE CLP (gases)	700.000 ppmV/4h	
ATE CLP (vapors)	3.000 mg/l/4h	
ATE CLP (dust, mist)	0.500 mg/l/4h	
Skin corrosion/irritation	: Not classified	
	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Not classified	
	Based on available data, the classification criteria are not met	
Respiratory or skin sensitization	: Not classified	
	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	: May cause genetic defects.	
Carcinogenicity	: May cause cancer.	
	May cause cancer by inhalation May cause cancer	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: Causes damage to organs.	
Specific target organ toxicity (repeated	: Not classified	
exposure)	Based on available data, the classification criteria are not met	
Aspiration hazard	: Not classified	
	Based on available data, the classification criteria are not met	
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.	

### **SECTION 12: Ecological information**

12.1. Toxicity

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toluene (108-88-3)	
	84 mall (24 h: Daphaia magna: Lecometer effect)
EC50 Daphnia 1	84 mg/l (24 h; Daphnia magna; Locomotor effect)
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)
ethylbenzene (100-41-4)	
LC50 fish 1	9.09 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	77 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	48 mg/l (72 h; Scenedesmus subspicatus)
LC50 fish 2	4.2 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	75 mg/l (48 h; Daphnia magna)
TLM fish 1	29 ppm (96 h; Lepomis macrochirus; Hard water)
TLM fish 2	42.3 mg/l (96 h; Pimephales promelas)
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	> 160 mg/l (192 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	33 mg/l (192 h; Microcystis aeruginosa; Toxicity test)
m-xylene (108-38-3)	
LC50 fish 1	13 mg/l (96 h; Poecilia reticulata; Growth)
EC50 Daphnia 1	4.7 mg/l (48 h; Daphnia magna)
LC50 fish 2	8.4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	22 ppm (96 h; Lepomis macrochirus)
Threshold limit other aquatic organisms 1	> 160 mg/l (Pseudomonas putida; No specific isomer)
Threshold limit algae 2	> 160 mg/l (Scenedesmus quadricauda; No specific isomer)
o-xylene (95-47-6)	
LC50 fish 1	12 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	3.820 mg/l (48 h; Daphnia magna; Locomotor effect)
EC50 other aquatic organisms 1	4.7 mg/l (72 h; Selenastrum capricornutum; Growth)
LC50 fish 2	8.05 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	3.2 mg/l (48 h; Daphnia magna; Static system)
Threshold limit algae 1	<ul> <li>&gt; 160 mg/l (Scenedesmus quadricauda; No specific isomer)</li> </ul>
p-xylene (106-42-3)	······································
LC50 fish 1	2.6 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	3.6 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	50 mg/l (Chlamydomonas angulosa; Photosynthesis)
LC50 fish 2	
EC50 Daphnia 2	8.8 mg/l (96 h; Poecilia reticulata) 1.4 mg/l (48 h; Daphnia magna)
TLM fish 1	29 mg/l (96 h; Pimephales promelas)
TLM fish 2	20.9 mg/l (96 h; Lepomis macrochirus)
	<ul> <li>&gt; 160 mg/l (Scenedesmus quadricauda; No specific isomer)</li> </ul>
Threshold limit algae 2	> 160 mg/r (Scenedesinus quadricadua, No specific isomer)
tert-Butyl Methyl Ether (MTBE) (1634-04-4)	
LC50 fish 1	672 - 706 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	2500 mg/l (Rana sp.; Young)
EC50 Daphnia 1	
	651 mg/l (48 h; Daphnia magna)
LC50 fish 2	1000 mg/l (48 h; Leuciscus idus)
LC50 fish 2 Threshold limit other aquatic organisms 1	1000 mg/l (48 h; Leuciscus idus)           2500 mg/l (Rana sp.; Young)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1	1000 mg/l (48 h; Leuciscus idus)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b>	1000 mg/l (48 h; Leuciscus idus)           2500 mg/l (Rana sp.; Young)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b> LC50 fish 1	1000 mg/l (48 h; Leuciscus idus)           2500 mg/l (Rana sp.; Young)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b>	1000 mg/l (48 h; Leuciscus idus)         2500 mg/l (Rana sp.; Young)         470 mg/l (72 h; Scenedesmus subspicatus)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b> LC50 fish 1	1000 mg/l (48 h; Leuciscus idus)         2500 mg/l (Rana sp.; Young)         470 mg/l (72 h; Scenedesmus subspicatus)         15400 mg/l (96 h; Lepomis macrochirus; Lethal)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b> LC50 fish 1 EC50 Daphnia 1 LC50 fish 2 EC50 Daphnia 2	1000 mg/l (48 h; Leuciscus idus)         2500 mg/l (Rana sp.; Young)         470 mg/l (72 h; Scenedesmus subspicatus)         15400 mg/l (96 h; Lepomis macrochirus; Lethal)         > 10000 mg/l (48 h; Daphnia magna; Lethal)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b> LC50 fish 1 EC50 Daphnia 1 LC50 fish 2 EC50 Daphnia 2 Threshold limit other aquatic organisms 1	1000 mg/l (48 h; Leuciscus idus)         2500 mg/l (Rana sp.; Young)         470 mg/l (72 h; Scenedesmus subspicatus)         15400 mg/l (96 h; Lepomis macrochirus; Lethal)         > 10000 mg/l (48 h; Daphnia magna; Lethal)         10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
LC50 fish 2 Threshold limit other aquatic organisms 1 Threshold limit algae 1 <b>methanol (67-56-1)</b> LC50 fish 1 EC50 Daphnia 1 LC50 fish 2 EC50 Daphnia 2	1000 mg/l (48 h; Leuciscus idus)         2500 mg/l (Rana sp.; Young)         470 mg/l (72 h; Scenedesmus subspicatus)         15400 mg/l (96 h; Lepomis macrochirus; Lethal)         > 10000 mg/l (48 h; Daphnia magna; Lethal)         10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)         24500 mg/l (48 h; Daphnia magna; Locomotor effect)

12.2. Persistence and degradability		
BTEX plus MTBE Standard		
Persistence and degradability	Not established.	
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benzene (71-43-2)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water.
Biochemical oxygen demand (BOD)	Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air. 2.18 g O /g substance
Chemical oxygen demand (COD)	2.15 g O /g substance
ThOD	3.10 g O /g substance
BOD (% of ThOD)	0.70 % ThOD
toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. easily degradable in the soil.
Biochemical oxygen demand (BOD)	2.15 g O /g substance
Chemical oxygen demand (COD)	2.52 g O /g substance
ThOD	3.13 g O /g substance
BOD (% of ThOD)	0.69 % ThOD
ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	1.44 g O /g substance (20d.)
Chemical oxygen demand (COD)	2.1 g O /g substance
ThOD	3.17 g O /g substance
BOD (% of ThOD)	(20 day(s)) 45.4
m-xylene (108-38-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air. Photooxidation
	in the air.
Biochemical oxygen demand (BOD)	2.53 g O /g substance
Chemical oxygen demand (COD)	2.63 g O /g substance
ThOD	3.1 g O /g substance
o-xylene (95-47-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.64 g O /g substance
Chemical oxygen demand (COD)	2.91 g O /g substance
ThOD	3.125 g O /g substance
p-xylene (106-42-3)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil.
Fersistence and degradability	Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.40 g O /g substance
Chemical oxygen demand (COD)	2.56 g O /g substance
ThOD	3.125 g O /g substance
-	
tert-Butyl Methyl Ether (MTBE) (1634-04-	·
Persistence and degradability	Not readily biodegradable in water.
methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O /g substance
Chemical oxygen demand (COD)	1.42 g O /g substance
ThOD	1.5 g O /g substance
BOD (% of ThOD)	0.8 % ThOD
2.3. Bioaccumulative potential	
BTEX plus MTBE Standard	
Bioaccumulative potential	Not established.
benzene (71-43-2)	10 Salma gairdhari (Onearbunghun muking)
BCF fish 1	19 Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	< 10 (3 days; Leuciscus idus)
BCF other aquatic organisms 1	30 (24 h; Chlorella sp.; Fresh weight)
Log Pow	2.13 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
toluene (108-88-3)	
BCF fish 1	13.2 (Anguilla japonica)
BCF fish 2	90 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	380 (24 h; Chlorella sp.; Fresh weight)

toluene (108-88-3)	
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
ethylbenzene (100-41-4)	
BCF fish 1	1 (6 weeks; Oncorhynchus kisutch)
BCF fish 2	15 - 79 (Carassius auratus)
BCF other aquatic organisms 1	4.68 (Lamellibranchiata)
Log Pow	3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
m-xylene (108-38-3)	
BCF fish 1	15 (Carassius auratus)
BCF fish 2	24 (Anguilla japonica)
Log Pow	3.20 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
o-xylene (95-47-6)	
BCF fish 1	21.4 (Anguilla japonica)
BCF fish 2	14.1 (Carassius auratus)
BCF other aquatic organisms 1	219 (Selenastrum capricornutum)
Log Pow	3.12 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
p-xylene (106-42-3)	
BCF fish 1	15 (Carassius auratus)
BCF fish 2	23 (240 h; Anguilla japonica)
Log Pow	3.15 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
tert-Butyl Methyl Ether (MTBE) (1634-04-4)	
BCF fish 1	1.5 (672 h; Cyprinus carpio)
Log Pow	1.06 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methanol (67-56-1)	
BCF fish 1	< 10 (72 h; Leuciscus idus)
BCF fish 2	1 (72 h; Cyprinus carpio; Blood)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
-	
benzene (71-43-2)	0.000 N/m (20.%C)
Surface tension	0.029 N/m (20 °C)
toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
ethylbenzene (100-41-4)	
Surface tension	0.029 N/m
m-xylene (108-38-3)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
o-xylene (95-47-6)	
Surface tension	0.003 N/m (25 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
p-xylene (106-42-3)	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
tert-Butyl Methyl Ether (MTBE) (1634-04-4)	
Surface tension	0.020 N/m (20 °C)
methanol (67-56-1)	0.023 N/m (20 °C)
Surface tension	0.023 N/m (20 °C)
12.5. Results of PBT and vPvB assessmen No additional information available	

No additional information available

12.6.	Other adverse effects	

12.6. Other adverse effects	
Additional information	: Avoid release to the environment
SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.
<b>SECTION 14: Transport informati</b>	on
In accordance with ADR / RID / IMDG / IATA	A/ ADN
14.1. UN number	
UN-No. (ADR)	: 1992
UN-No.(IATA)	: 1992
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IATA)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Proper Shipping Name (ADN)	: FLAMMABLE LIQUID, TOXIC, N.O.S.
Transport document description (ADR)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol(67-56-1)), 3 (6.1), II, (D/E)
14.3. Packing group	
Class (ADR)	: 3
Classification code (ADR)	: FT1
Class (IATA)	: 3
Class (IMDG)	: 3
Class (ADN)	: 3
Subsidiary risks (ADR)	: 6.1
Hazard labels (ADR)	: 3, 6.1
Hazard labels (IATA)	: 3, 6.1
14.4. Packing group	
Packing group (ADR) Packing group (IATA)	: II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	

<b>14.6.1. Overland transport</b> Hazard identification number (Kemler No.) Classification code (ADR) Orange plates	: 336 : FT1 : 336 1992
Special provision (ADR)	: 274
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 11

Excepted quantities (ADR)

: E2

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according to Regulation (EC) No. 453/2010

### **14.6.2. Transport by sea** No additional information available

14.6.3. Air transport		
CAO packing instructions (IATA)	: 364	
CAO max net quantity (IATA)	: 60L	
PCA packing instructions (IATA) : 352		
PCA Limited quantities (IATA)	: Y341	
PCA limited quantity max net quantity (IATA)	: 1L	
PCA max net quantity (IATA)	: 1L	
PCA Excepted quantities (IATA)	: E2	
ERG code (IATA) : 3HP		
14.6.4. Inland waterway transport		

Carriage prohibited (ADN)

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

Not applicable

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

: No

### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions Contains no REACH candidate substance Contains no REACH Annex XIV substances.

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information	
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	: None.

### PHV SDS EU

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