

Safety Data Sheet Date of issue: 17/08/2016

Revision date:

Version: 1.0

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

1.1.	Product identifier		
Produc	t form	:	Mixture
Produc	t name	:	VPH Ca
Produc	t code	:	AL0-101

PH Calibration Mix with Surogates

: AL0-101616

: Trade product

### Relevant identified uses of the substance or mixture and uses advised against 1.2.

### 1.2.1. Relevant identified uses

### Main use category

Product group

Industrial/Professional use spec

- : Laboratory Use
- Industrial For professional use only
- 1.2.2. Uses advised against

### No additional information available

### 1.3. Details of the supplier of the safety data sheet

Phenova 6390 Joyce Dr. Suite 100 80403 Golden, CO - United States T 1-866-942-2978 - F 1-866-283-0269 info@phenova.com - www.phenova.com

1.4. Emergency telephone number

Emergency number

ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 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
Aquatic Chronic 3	H412

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R45 Muta.Cat.2; R46 F+; R12 T; R23/24/25 T; R39/23/24/25 R52/53 Full text of R-phrases: see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

## Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Safety Data Sheet

Signal word (CLP)	: Danger
Hazardous ingredients	: benzene; methanol
Hazard statements (CLP)	<ul> <li>H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin H340 - May cause genetic defects H350 - May cause cancer H370 - Causes damage to organs H412 - Harmful to aquatic life with long lasting effects</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/vapors/spray</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water/shower</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention</li> <li>P361+P364 - Take off immediately all contaminated clothing and wash it before reuse</li> <li>P374 - Fight fire with normal precautions from a reasonable distance</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> </ul>
No labeling applicable	

No labeling applicable

2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

## 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	96.8	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
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
2,2,4-trimethylpentane (Component)	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	0.2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
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
1,2,4-trimethylbenzene (Component)	(CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
naphthalene (Component)	(CAS No) 91-20-3 (EC no) 202-049-5 (EC index no) 601-052-00-2	0.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
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	
n-nonane (Component)	(CAS No) 111-84-2 (EC no) 203-913-4	0.2	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	
n-pentane (Component)	(CAS No) 109-66-0 (EC no) 203-692-4 (EC index no) 601-006-00-1	0.2	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	
2-methylpentane (Component)	(CAS No) 107-83-5 (EC no) 203-523-4 (EC index no) 601-007-00-7	0.2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
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	
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	
Name	Product identifier	Specific	Specific concentration limits	
methanol (Component)	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X		(3 = <c 10)="" 2,="" <="" h371<br="" se="" stot="">(C &gt;= 10) STOT SE 1, H370</c>	

## SECTION 4: First aid measures

4.1. Description of first aid measure	
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.
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	: 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.
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	l effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
Symptoms/injuries after ingestion	<ul> <li>Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.</li> </ul>
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measur	*AP

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	ubstance 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	<ul> <li>Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.</li> </ul>
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release mea	asures
	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapors/spray.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Noti	fy authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3. Methods and material for containm	ient and cleaning up
Methods for cleaning up	: Take up in absorbent material. Collect spillage.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persona	al protection.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.
Hygiene measures	: Do not eat, drink or smoke when using this product. Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures	<ul> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.</li> </ul>
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.
Incompatible materials	: Direct sunlight. Heat sources.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/pers	sonal protection
8.1. Control parameters	

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 chemical p	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid

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Safety Data Sheet	<b>C</b>
Color	: Colorless.
Odor	: characteristic.
Н	: 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
Dxidizing properties	: No data available
Explosion limits	: No data available
0.2. Other information	
SECTION 10: Stability and rea	
No additional information available	
10.2. Chemical stability	
· · · · · · · · · · · · · · · · · · ·	form flammable/explosive vapor-air mixture.
10.3. Possibility of hazardous rea Not established.	ctions
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low te	mperatures. Open flame.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition p	products
May release flammable gases.	
SECTION 11: Toxicological in	formation
11.1. Information on toxicological	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.
VPH Calibration Mix with Surogates	
ATE CLP (oral)	103.306 mg/kg body weight
ATE CLP (dermal)	309.917 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
ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Rat; Other; Experimental value)
LD50 dermal rabbit	15415 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	17.8 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	4000 ppm/4h (Rat; Literature study)
ATE CLP (oral)	3500.000 mg/kg body weight
ATE CLP (dermal)	15415.000 mg/kg body weight
ATE CLP (gases)	4000.000 ppmV/4h
ATE CLD (venere)	47.000 m m // / / h

ATE CLP (vapors)

ATE CLP (dust, mist)

17.800 mg/l/4h

1.500 mg/l/4h

2,2,4-trimethylpentane (540-84-1)	
LD50 oral rat	> 5000 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (Rat; Experimental value)
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
naphthalene (91-20-3)	
LD50 oral rat	> 1100 mg/kg (Rat)
LD50 dermal rat	> 2500 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE CLP (oral)	500.000 mg/kg body weight
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n-nonane (111-84-2)	> 15000 malka (Patri Literatura)
LD50 oral rat	> 15000 mg/kg (Rat; Literature)
LC50 inhalation rat (mg/l)	17 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	3200 ppm/4h (Rat; Literature)
ATE CLP (gases) ATE CLP (vapors)	3200.000 ppmV/4h 17.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
n-pentane (109-66-0)	
LD50 oral rat	> 2000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
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; Experimenta value)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat; Literature study)
ATE CLP (dermal)	12223.000 mg/kg body weight
1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	<ul> <li>&gt; 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight; Rat; Experimental value)</li> </ul>
LD50 dermal rat	> 3440 mg/kg (Rat; Read-across; OECD 402: Acute Dermal Toxicity)
LC50 inhalation rat (mg/l)	18 mg/l/4h (Rat)
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	18.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
o-xylene (95-47-6)	
LD50 oral rat	3608 mg/kg (Rat)
ATE CLP (oral)	3608.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
m-xylene (108-38-3)	
LD50 oral rat	5011 - 6630 mg/kg (Rat)
ATE CLP (oral)	5011.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
p-xylene (106-42-3)	
	4020 mg/kg (Bot)
LD50 oral rat LC50 inhalation rat (mg/l)	4030 mg/kg (Rat) 20 mg/l/4h (Rat)

p-xylene (106-42-3)	
LC50 inhalation rat (ppm)	4740 ppm/4h (Rat)
ATE CLP (oral)	4030.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4740.000 ppmV/4h
ATE CLP (vapors)	20.000 mg/l/4h
ATE CLP (dust, mist)	1.500 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
Reproductive toxicity	Not classified
Reploadelive toxicity	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 exposure)	: Not classified
	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	
Ecology - water	: Harmful to aquatic life with long lasting effects.
benzene (71-43-2)	
LC50 fish 1	5.3 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 2	10 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
Threshold limit algae 1	100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
ethylbenzene (100-41-4)	
LC50 fish 2	4.2 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri; Semi-static system; Fresh water; Experimental value)
2,2,4-trimethylpentane (540-84-1)	
EC50 Daphnia 1	0.4 mg/l (EC50; Other; 48 h; Daphnia magna; Static system; Fresh water; Read-across)
Threshold limit algae 1	2.943 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Fresh water)
tert-Butyl Methyl Ether (MTBE) (1634-04-4)	
LC50 fish 1	672 - 706 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	651 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
naphthalene (91-20-3)	
EC50 Daphnia 1	2.16 mg/l (EC50; 48 h; Daphnia magna)
LC50 fish 2	0.11 mg/l (LC50; 96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.4 mg/l (EC50; 72 h; Skeletonema costatum)

n-nonane (111-84-2)	
LC50 fish 2	1 - 10 mg/l (LC50; 96 h; Pisces)
1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water)
EC50 Daphnia 1	3.6 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 2	2.356 mg/l (EC50; ECOSAR; 96 h; Algae; Fresh water)
o-xylene (95-47-6)	
EC50 other aquatic organisms 1	4.7 mg/l (72 h; Selenastrum capricornutum; Growth)
LC50 fish 2	8.05 mg/l (LC50; 96 h)
EC50 Daphnia 2	3.2 mg/l (EC50; 48 h)
m-xylene (108-38-3)	
EC50 Daphnia 1	4.7 mg/l (EC50; 48 h)
LC50 fish 2	8.4 mg/l (LC50; 96 h)
p-xylene (106-42-3)	
LC50 fish 1	2.6 mg/l (LC50; 96 h)
EC50 Daphnia 2	1.4 mg/l (EC50; 48 h)
methanol (67-56-1)	
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
LC50 fish 2	10800 mg/l (LC50; 96 h; Salmo gairdneri)

VPH Calibration Mix with Surogates		
Persistence and degradability	May cause long-term adverse effects in the environment.	
benzene (71-43-2)		
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.	
Biochemical oxygen demand (BOD)	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	
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)	45.4 (20 days)	
2,2,4-trimethylpentane (540-84-1)		
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.	
ThOD	3.50 g O□ /g substance	
tert-Butyl Methyl Ether (MTBE) (1634-04-	4)	
Persistence and degradability	Not readily biodegradable in water.	
naphthalene (91-20-3)		
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.	
Biochemical oxygen demand (BOD)	0 g O /g substance	
Chemical oxygen demand (COD)	0.22 g O□ /g substance	
ThOD	2.99 g O□ /g substance	
n-nonane (111-84-2)		
Persistence and degradability	Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil.	
BOD (% of ThOD)	1.1 (1 days)	
n-pentane (109-66-0)		
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil.	
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	

toluene (108-88-3)	
Chemical oxygen demand (COD)	2.52 g O□/g substance
ThOD	3.13 g O□ /g substance
BOD (% of ThOD)	0.69
1,2,4-trimethylbenzene (95-63-6)	
Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 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
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
p-xylene (106-42-3)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.40 g Q /g substance
Chemical oxygen demand (COD)	2.56 g O /g substance
ThOD	3.125  g O /g substance
· · · · · · · · · · · · · · · · · · ·	0.120 g 0 = /g 0.2011.00
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
ThOD BOD (% of ThOD)	
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential	1.5 g O□ /g substance
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates	1.5 g O□ /g substance       0.8 (Literature study)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential	1.5 g O□ /g substance
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2)	1.5 g O□ /g substance       0.8 (Literature study)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential	1.5 g O //g substance         0.8 (Literature study)         Not established.         19 (BCF)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1)	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2	1.5 g O □ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1)	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2	1.5 g O:: /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow	1.5 g O:: /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow tert-Butyl Methyl Ether (MTBE) (1634-04-	1.5 g O:: /g substance         0.8 (Literature study)         Not established.         19 (BCF)         <10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow tert-Butyl Methyl Ether (MTBE) (1634-04-4 BCF fish 1	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         <10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow tert-Butyl Methyl Ether (MTBE) (1634-04-4 BCF fish 1 Log Pow	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow Etert-Butyl Methyl Ether (MTBE) (1634-04-4 BCF fish 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow tert-Butyl Methyl Ether (MTBE) (1634-04-4 BCF fish 1 Log Pow Bioaccumulative potential	1.5 g O /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)
ThOD BOD (% of ThOD) 2.3. Bioaccumulative potential VPH Calibration Mix with Surogates Bioaccumulative potential benzene (71-43-2) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential ethylbenzene (100-41-4) BCF fish 1 BCF fish 2 BCF other aquatic organisms 1 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow Bioaccumulative potential 2,2,4-trimethylpentane (540-84-1) BCF fish 2 Log Pow tert-Butyl Methyl Ether (MTBE) (1634-04-4 BCF fish 1 Log Pow Bioaccumulative potential 2-methylpentane (107-83-5) BCF fish 1	1.5 g O□ /g substance         0.8 (Literature study)         Not established.         19 (BCF)         < 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus; Flow-through system; Fresh water; Experimental value)

naphthalene (91-20-3)	
BCF fish 1	23 - 168 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.30 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
n-nonane (111-84-2)	
BCF fish 1	8118 (BCF)
Log Pow	5.65 (Experimental value)
Bioaccumulative potential	Bioaccumable.
n-pentane (109-66-0)	
BCF fish 1	171 (BCF)
Log Pow	3.45 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
toluene (108-88-3)	
BCF fish 2	90 (BCF; 72 h; Leuciscus idus; Static system; Fresh water)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
·	
1,2,4-trimethylbenzene (95-63-6)	
BCF fish 1	31 - 275 (BCF; Other; 8 weeks; Cyprinus carpio)
Log Pow	3.63 - 4.09 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow≤ 5).
o-xylene (95-47-6)	
BCF fish 1	21.4 (BCF)
BCF fish 2	14.1 (BCF)
BCF other aquatic organisms 1	219 (BCF)
Log Pow	3.12 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
_m-xylene (108-38-3)	
BCF fish 1	15 (BCF)
BCF fish 2	24 (BCF)
Log Pow	3.20 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
p-xylene (106-42-3)	
BCF fish 1	15 (BCF)
BCF fish 2	23 (BCF; 240 h)
Log Pow	3.15 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
methanol (67-56-1)	
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow	-0.77 (Experimental value; Other)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
benzene (71-43-2)	
Surface tension	0.029 N/m (20 °C)
Log Koc	Koc, 134.1; QSAR
ethylbenzene (100-41-4)	
Surface tension	0.029 N/m
Log Koc	log Koc, PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated
	value
2,2,4-trimethylpentane (540-84-1)	
Log Koc	log Koc, SRC PCKOCWIN v2.0; 2.58; Calculated value; Koc; SRC PCKOCWIN v2.0; 240.3;
	Calculated value
tert-Butyl Methyl Ether (MTBE) (1634-04	1-4)
Surface tension	0.020 N/m (20 °C)
naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)
n-pentane (109-66-0)	
Surface tension	0.015 N/m (25 °C; 100 %; 0.013 N/m; 20 °C)
Log Koc	log Koc,2.9; QSAR
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EN (English US)

Saloty Bata Shoot	
toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
1,2,4-trimethylbenzene (95-63-6)	
Surface tension	0.029 N/m
Log Koc	log Koc,3.04; Calculated value
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
o-xylene (95-47-6) Surface tension	0.002 N/ (25.%C)
	0.003 N/m (25 °C) May be harmful to plant growth, blooming and fruit formation.
Ecology - soil	
m-xylene (108-38-3)	
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.
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc, PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessm	nent
No additional information available	
12.6. Other adverse effects	· Avaid release to the environment
Additional information	: Avoid release to the environment
SECTION 13: Disposal consideration	ons
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.
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.
Transport document description (ADR)	: UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (FLAMMABLE LIQUID, TOXIC, N.O.S.), 3 (6.1), II, (D/E)
14.3. Packing group	
Class (ADR)	: 3
Classification code (ADR)	: FT1
Subsidiary risks (ADR)	: 6.1
Hazard labels (ADR)	: 3, 6.1
14.4. Packing group	
Packing group (ADR)	: 1
Packing group (IATA)	: II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
•	. 226
Hazard identification number (Kemler No.)	: 336
Classification code (ADR)	: FT1
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Orange plates	336 1992
Special provision (ADR)	: 274
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
<b>14.6.2. Transport by sea</b> 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)	: No
44.7 Turnen aut in built a seconding to Anna	

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

## 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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