

Safety Data Sheet

Date of issue: 12/09/2016 Revision date: : Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Custom VOA Blend
Product code : AL0-130039
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Laboratory Use Industrial/Professional use spec : 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 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Muta. 1B H340 Carc. 1A H350 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Aquatic Chronic 2 H411

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

Carc.Cat.1; R45 Muta.Cat.2; R46 Repr.Cat.3; R62 Repr.Cat.3; R63 F+; R12

Xn; R48/20/21/22 Xi; R38

N; R51/53 R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)









Signal word (CLP) : Danger

Hazardous ingredients : n-pentane; benzene; hexane; toluene
Hazard statements (CLP) : H225 - Highly flammable liquid and vapor

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

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

P233 - Keep container tightly closed

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing 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 P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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]
n-pentane (Component)	(CAS No) 109-66-0 (EC no) 203-692-4 (EC index no) 601-006-00-1	50	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
cyclopentane (Component)	(CAS No) 287-92-3 (EC no) 206-016-6 (EC index no) 601-030-00-2	5	Flam. Liq. 2, H225 Aquatic Chronic 3, H412
benzene (Component)	(CAS No) 71-43-2 (EC no) 200-753-7 (EC index no) 601-020-00-8	5	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
hexane (Component)	(CAS No) 110-54-3 (EC no) 203-777-6 (EC index no) 601-037-00-0	5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
cyclohexane (Component)	(CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1	5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
toluene (Component)	(CAS No) 108-88-3 (EC no) 203-625-9 (EC index no) 601-021-00-3	5	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	5	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
heptane (Component)	(CAS No) 142-82-5 (EC no) 205-563-8 (EC index no) 601-008-00-2	5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
octane (Component)	(CAS No) 111-65-9 (EC no) 203-892-1 (EC index no) 601-009-00-8	5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
o-xylene (Component)	(CAS No) 95-47-6 (EC no) 202-422-2 (EC index no) 601-022-00-9	2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
p-xylene (Component)	(CAS No) 106-42-3 (EC no) 203-396-5 (EC index no) 601-022-00-9	2	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
ethylbenzene (Component)	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	2	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
methylcyclohexane (Component)	(CAS No) 108-87-2 (EC no) 203-624-3 (EC index no) 601-018-00-7	2	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
Name	Product identifier	Specific	concentration limits
hexane (Component)	(CAS No) 110-54-3 (EC no) 203-777-6 (EC index no) 601-037-00-0	(C >= 5) S	TOT RE 2, H373

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. 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. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash

with plenty of soap and water. Wash contaminated clothing before reuse. Get medical

advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause cancer by inhalation. May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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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 substance 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 measures

6.1. Personal precautions, protective equipment 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. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment 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 personal 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. Use only outdoors or in a well-ventilated area.

Hygiene measures : 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, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

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/personal 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.

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Personal protective equipment : Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety







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 suitable protective clothing. 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 properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Colorless. Odor characteristic рΗ No data available Melting point No data available Freezing point No data available No data available **Boiling point** Flash point No data available : No data available Auto-ignition temperature 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

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

n-pentane (109-66-0)	
LD50 oral rat > 2000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)	
cyclopentane (287-92-3)	
LD50 oral rat	11400 mg/kg (Rat)
LC50 inhalation rat (mg/l)	106 mg/l/4h (Rat)

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havers (440 54.2)	
hexane (110-54-3)	16000 mg/kg hody weight /Patr Ferringlant or similar to OFOR 404. Firm with a similar to
LD50 dormal rabbit	16000 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 3350 mg/kg body weight (Rabbit; Read-across; Equivalent or similar to OECD 402)
ATE CLP (oral)	16000.000 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
cyclohexane (110-82-7)	
LD50 oral rat	> 12705 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; >5000 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 19.07 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	> 5540 ppm/4h (Rat)
heptane (142-82-5)	
LD50 oral rat	> 15000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg
LD50 dermal rabbit	bodyweight; Rat; Read-across) > 3160 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >2000 mg/kg bodyweight; Rabbit; Read-across)
LC50 inhalation rat (mg/l)	103 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	25000 ppm/4h (Rat; Literature study)
ATE CLP (gases)	25000.000 ppmV/4h
ATE CLP (vapors)	103.000 mg/l/4h
ATE CLP (dust, mist)	103.000 mg/l/4h
,	100.000 High-Hi
methylcyclohexane (108-87-2) LD50 oral rat	> 5840 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Read-across)
LD50 dramal rat	> 2800 mg/kg body weight (Rat, OECD 401. Acute Ofal Toxicity, Read-across)
LD50 dermal rabbit	86700 mg/kg (Rabbit; Literature study)
	00700 mg/kg (Nabbit, Elterature study)
toluene (108-88-3)	2000 # /D / E / I / A / CEOD / A / I / E / E / E / E
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
octane (111-65-9)	
LD50 oral rat	5630 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; >5000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Read-across; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	118 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	5630.000 mg/kg body weight
ATE CLP (vapors)	118.000 mg/l/4h
ATE CLP (dust, mist)	118.000 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 CLP (vapors)	17.800 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
o-xylene (95-47-6)	
LD50 oral rat	3608 mg/kg (Rat)
	3608 mg/kg (Rat) 3608.000 mg/kg body weight

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o-xylene (95-47-6)		
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)		
LD50 oral rat	4030 mg/kg (Rat)	
LC50 inhalation rat (mg/l)	20 mg/l/4h (Rat)	
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	
1,2,4-trimethylbenzene (95-63-6)		
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature; 6000 mg/kg bodyweight;	
	Rat; Experimental value)	
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	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
, , ,	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.	
Carolinogoriloity	May cause cancer	
	•	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.	
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified	
•	Based on available data, the classification criteria are not met	
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.	
symptoms	. Based on available data, the statement of the first flot.	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	: Toxic to aquatic life with long lasting effects.	
cyclopentane (287-92-3)		
LC50 fish 1	100 mg/l (LC50; 96 h)	
EC50 Daphnia 1	10.5 mg/l (EC50; 48 h)	
Threshold limit algae 1	262 mg/l (EC50; 72 h)	
hexane (110-54-3)		

cyclopentane (287-92-3)		
LC50 fish 1	100 mg/l (LC50; 96 h)	
EC50 Daphnia 1	10.5 mg/l (EC50; 48 h)	
Threshold limit algae 1	262 mg/l (EC50; 72 h)	
hexane (110-54-3)		

hexane (110-54-3)		
LC50 fish 1	2.5 mg/l (LC50; 96 h)	
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)	
Threshold limit algae 2	26 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system)	
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)	
cyclohexane (110-82-7)		
LC50 fish 1	4.53 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system: Fresh water: Experimental value)	

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cyclohexane (110-82-7)	
EC50 Daphnia 1	0.9 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna;
·	Static system; Fresh water; Experimental value)
Threshold limit algae 1	3.428 mg/l (EbC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)
Threshold limit algae 2	0.925 mg/l (NOEC; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum)
heptane (142-82-5)	
EC50 Daphnia 1	0.2 mg/l (LC50; Other; 96 h; Chaetogammarus marinus; Semi-static system; Salt water; Experimental value)
methylcyclohexane (108-87-2)	
LC50 fish 2	5.4 mg/l (LC50; 96 h; Salmo gairdneri; Semi-static system)
Threshold limit algae 2	29 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Selenastrum capricornutum; Static system; Fresh water; Read-across)
octane (111-65-9)	
EC50 Daphnia 1	0.38 mg/l (EC50; Other; 48 h; Daphnia magna; 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)
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)
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)
·	g. (2003, 1011)
1,2,4-trimethylbenzene (95-63-6) LC50 fish 1	7.72 mg/l /I CEO: 06 h; Dimonholog promolog; Flow through gystem; Frogh water)
EC50 Daphnia 1	7.72 mg/l (LC50; 96 h; Pimephales promelas; Flow-through system; Fresh water) 3.6 mg/l (LC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna;
ЕСЗО Варінна т	Static system; Fresh water; Experimental value)
Threshold limit algae 2	2.356 mg/l (EC50; ECOSAR; 96 h; Algae; Fresh water)
<u> </u>	
12.2. Persistence and degradability	
Custom VOA Blend	
Persistence and degradability	May cause long-term adverse effects in the environment.
n-pentane (109-66-0)	
Persistence and degradability	
•	Readily biodegradable in water. Low potential for adsorption in soil.
cyclopentane (287-92-3)	Readily biodegradable in water. Low potential for adsorption in soil.
cyclopentane (287-92-3) Persistence and degradability	
Persistence and degradability	Not readily biodegradable in water.
Persistence and degradability Biochemical oxygen demand (BOD) ThOD	Not readily biodegradable in water. 0.56 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study)
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil.
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil.
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study)
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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.
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance 3.10 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) cyclohexane (110-82-7)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance 3.10 g O□ /g substance 0.70
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) cyclohexane (110-82-7) Persistence and degradability	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance 3.10 g O□ /g substance 0.70 Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil.
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) cyclohexane (110-82-7) Persistence and degradability Biochemical oxygen demand (BOD)	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance 3.10 g O□ /g substance 0.70 Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil. 0.22 g O□ /g substance
Persistence and degradability Biochemical oxygen demand (BOD) ThOD BOD (% of ThOD) hexane (110-54-3) Persistence and degradability ThOD BOD (% of ThOD) benzene (71-43-2) Persistence and degradability Biochemical oxygen demand (BOD) Chemical oxygen demand (COD) ThOD BOD (% of ThOD) cyclohexane (110-82-7) Persistence and degradability	Not readily biodegradable in water. 0.56 g O□ /g substance 3.42 g O□ /g substance < 0.5 (5 days; Literature study) Readily biodegradable in water. Photooxidation in water. easily degradable in the soil. 3.52 g O□ /g substance 0.63 (Literature study) 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. 2.18 g O□ /g substance 2.15 g O□ /g substance 3.10 g O□ /g substance 0.70 Readily biodegradable in water. Non degradable in the soil. Low potential for adsorption in soil.

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heptane (142-82-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Low
	potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.92 g O□ /g substance
Chemical oxygen demand (COD)	0.06 g O□ /g substance
ThOD	3.52 g O□ /g substance
BOD (% of ThOD)	> 0.5 (5 days; Literature study)
methylcyclohexane (108-87-2)	
Persistence and degradability	Not 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
Chemical oxygen demand (COD)	2.52 g O□ /g substance
ThOD	3.13 g O⊒ /g substance
BOD (% of ThOD)	0.69
octane (111-65-9)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.33 g O□ /g substance (35d)
ThOD	3.50 g O□ /g substance
BOD (% of ThOD)	0.67 (35 days)
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.)
	2.1 g O□ /g substance
Chemical oxygen demand (COD)	3.17 g O□ /g substance
ThOD	
BOD (% of ThOD)	45.4 (20 days)
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. 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
	0.120 g O = 1g Substance
1,2,4-trimethylbenzene (95-63-6) Persistence and degradability	Not readily biodegradable in water. Forming sediments in water. Biodegradable in the soil.
reisisterice and degradability	Adsorbs into the soil. Low potential for mobility in soil. Photodegradation in the air.
Chemical oxygen demand (COD)	0.44 g Q□ /g substance
2.3. Bioaccumulative potential	
Custom VOA Blend	
Bioaccumulative potential	Not established.
'	140t established.
n-pentane (109-66-0)	474 (DCE)
BCF fish 1	171 (BCF)
Log Pow	3.45 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
cyclopentane (287-92-3)	
Log Pow	2.05 - 3 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
hexane (110-54-3)	
BCF fish 1	501.187 (BCF; Other; Pimephales promelas)
Log Pow	3.5 - 3.94 (Calculated)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
benzene (71-43-2)	
	19 (BCF)
BCF fish 1	()
BCF fish 2	< 10 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 3 days; Leuciscus idus;

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benzene (71-43-2)	
BCF other aquatic organisms 1	30 (BCF; 24 h; Chlorella sp.)
Log Pow	2.13 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
cyclohexane (110-82-7)	
BCF fish 2	31 - 129 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.44 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
heptane (142-82-5)	
BCF other aquatic organisms 1	552 (BCF; BCFBAF v3.00)
Log Pow	4.66 (Experimental value; 4.5; Literature study)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow≤ 5).
methylcyclohexane (108-87-2)	
BCF fish 1	95 - 321 (BCF; 8 weeks; Cyprinus carpio)
Log Pow	3.88 (Literature)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
•	Esti petantial for biodecantidation (Bot 1000).
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).
·	Low potential for bloadcountrialistic (DOI 1000).
octane (111-65-9)	770 5400 (DOE)
BCF fish 1	776 - 5129 (BCF)
BCF other aquatic organisms 1	198.7 (BCF; 105 minutes; Mytilus edulis; Static system; Salt water; Experimental value)
Log Pow Bioaccumulative potential	5.18 (Experimental value) High potential for bioaccumulation (BCF > 5000).
·	High potential for bloaccumulation (BCF > 5000).
ethylbenzene (100-41-4)	
BCF fish 1	1 (BCF; Other; 6 weeks; Oncorhynchus kisutch; Flow-through system; Salt water; Literature
BCF fish 2	study) 15 - 79 (BCF)
BCF other aquatic organisms 1	4.68 (BCF)
Log Pow	3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20
2091011	°C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
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).
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).
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).
12.4. Mobility in soil	
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
	10g 100,2.0, QO/11
cyclopentane (287-92-3)	0.022 N/m
Surface tension	0.023 N/m
hexane (110-54-3)	
Surface tension	0.018 N/m (25 °C; 1 g/l)
Log Koc	Koc,2187.76; QSAR; log Koc; 3.34; QSAR

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benzene (71-43-2)	
Surface tension	0.029 N/m (20 °C)
Log Koc	Koc,134.1; QSAR
cyclohexane (110-82-7)	
Surface tension	0.025 N/m (20 °C)
Log Koc	log Koc,Other; 2.89; QSAR; Koc; Other; 770; QSAR
heptane (142-82-5)	
Surface tension	0.019 N/m (25 °C; 0.020 N/m; 20 °C)
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.38; Calculated value
methylcyclohexane (108-87-2)	
Log Koc	log Koc,SRC PCKOCWIN v2.0; 2.369; Calculated value
toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)
octane (111-65-9)	
Surface tension	0.022 N/m
Log Koc	Koc,SRC PCKOCWIN v2.0; 436.8; Calculated value; log Koc; SRC PCKOCWIN v2.0; 2.64; Calculated value
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
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.
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.
12.5 Results of PBT and vPvB assessmen	

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

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.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

 14.1.
 UN number

 UN-No. (ADR)
 : 1993

 UN-No.(IATA)
 : 1993

 UN-No. (IMDG)
 : 1993

 UN-No.(ADN)
 : 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (IATA) : Flammable liquid, n.o.s.

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, N.O.S.

Proper Shipping Name (ADN) : FLAMMABLE LIQUID, N.O.S.

Transport document description (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS

14.3. Packing group

Class (ADR) : 3

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 Classification code (ADR)
 : F1

 Class (IATA)
 : 3

 Class (IMDG)
 : 3

 Class (ADN)
 : 3

 Classification code (ADN)
 : F1

 Hazard labels (ADR)
 : 3



Hazard labels (IATA) : 3



Hazard labels (IMDG) : 3



Hazard labels (ADN) : 3



14.4. Packing group

 Packing group (ADR)
 : II

 Packing group (IATA)
 : II

 Packing group (IMDG)
 : II

 Packing group (ADN)
 : II

14.5. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 33
Classification code (ADR) : F1

Orange plates :



Special provision (ADR) : 274, 601, 640D

Transport category (ADR) : 2

Tunnel restriction code (ADR) : D/E

Limited quantities (ADR) : 11

Excepted quantities (ADR) : E2

14.6.2. Transport by sea

Special provision (IMDG) : 274
Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T7

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Tank special provisions (IMDG) : TP1, TP8, TP28

EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : B

14.6.3. Air transport

: 364 CAO packing instructions (IATA) CAO max net quantity (IATA) : 60L PCA packing instructions (IATA) : 353 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA max net quantity (IATA) : 5L : E2 PCA Excepted quantities (IATA) Special provision (IATA) : A3 ERG code (IATA) : 3H

14.6.4. Inland waterway transport

Special provision (ADN) : 274, 601, 640D

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E2

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

Carriage prohibited (ADN) : No

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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