

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 26/06/2017 Revision date: :

Version: 1.0

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

1.1. Product identifier

Product form	
Product name	
Product code	
Product group	

: Mixture : Custom Acids Surrogate Mix

: AL0-130121

: 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

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
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 2	H341
STOT SE 1	H370

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

Muta.Cat.3; R68 F; R11 T; R23/24/25 T; R39/23/24/25 Xi; R36/38 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



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Signal word (CLP)	: Danger
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour H301+H311 - Toxic if swallowed or in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H341 - Suspected of causing genetic defects H370 - Causes damage to organs
Precautionary statements (CLP)	 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/vapours/spray P270 - Do not eat, drink or smoke when using this product P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water 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 P362+P364 - Take off contaminated clothing and wash it before reuse P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
No labelling applicable	

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures
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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	97	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
2-Fluorophenol (Component)	(CAS-No.) 367-12-4 (EC-No.) 206-681-2	1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332
Phenol-d5 (Component)	(CAS-No.) 4165-62-2 (EC-No.) 203-632-7 (EC Index-No.) 604-001-00-2	1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373
2,4,6-tribromophenol (Component)	(CAS-No.) 118-79-6 (EC-No.) 204-278-6	1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
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
Phenol-d5 (Component)	(CAS-No.) 4165-62-2 (EC-No.) 203-632-7 (EC Index-No.) 604-001-00-2	(`1 = <c 3<="" <="" td=""><td>3) Eye Irrit. 2, H319 3) Skin Irrit. 2, H315 kin Corr. 1B, H314</td></c>	3) Eye Irrit. 2, H319 3) Skin Irrit. 2, H315 kin Corr. 1B, H314

SECTION 4: First aid measures 4.1. Description of first aid measures Never give anything by mouth to an unconscious person. Call a POISON CENTER or First-aid measures general 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. : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. First-aid measures after skin contact : Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Get medical advice/attention.

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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 persists.
irst-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Immediately call POISON CENTER or doctor/physician.
.2. Most important symptoms and o	effects, both acute and delayed
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.
	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Jnsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-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 the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
5.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.
	: Evacuate unnecessary personnel.
Emergency procedures	: Evacuate unnecessary personnel. : Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray
Emergency procedures	
Emergency procedures 5.1.2. For emergency responders Protective equipment Emergency procedures	: Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray
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Emergency procedures 5.1.2. For emergency responders Protective equipment Emergency procedures 5.2. Environmental precautions Prevent entry to sewers and public waters. N	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters.
Emergency procedures 5.1.2. For emergency responders Protective equipment Emergency procedures 5.2. Environmental precautions Prevent entry to sewers and public waters. No 5.3. Methods and material for contain	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. No. 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and persons	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 5.4. Reference to other sections See Heading 8. Exposure controls and persis SECTION 7: Handling and storag	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and persis SECTION 7: Handling and storag 7.1. Precautions for safe handling	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and pers SECTION 7: Handling and storag 7.1. Precautions for safe handling Additional hazards when processed	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection. e Handle empty containers with care because residual vapours are flammable.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and persis SECTION 7: Handling and storag 7.1. Precautions for safe handling	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection.
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Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and pers SECTION 7: Handling and storag 7.1. Precautions for safe handling Additional hazards when processed	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection. e Handle empty containers with care because residual vapours are flammable. 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 vapour. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until al safety precautions have been read and understood. 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.
Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 5.4. Reference to other sections See Heading 8. Exposure controls and persections SECTION 7: Handling and storag 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Hygiene measures	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. inment and cleaning up Take up in absorbent material. Collect spillage. onal protection. e Handle empty containers with care because residual vapours are flammable. 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 vapour. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until al safety precautions have been read and understood. 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.
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Emergency procedures 3.1.2. For emergency responders Protective equipment Emergency procedures 3.2. Environmental precautions Prevent entry to sewers and public waters. N 3.3. Methods and material for contain Methods for cleaning up 3.4. Reference to other sections See Heading 8. Exposure controls and persis SECTION 7: Handling and storag 7.1. Precautions for safe handling Additional hazards when processed Precautions for safe handling Additional hazards when processed Precautions for safe storage, inc Exposure controls and persis 1.2. Conditions for safe storage, inc Fechnical measures	 Equip cleanup crew with proper protection. Avoid breathing dust/fume/gas/mist/vapours/spray Ventilate area. Notify authorities if liquid enters sewers or public waters. Inment and cleaning up Take up in absorbent material. Collect spillage. onal protection. e Handle empty containers with care because residual vapours are flammable. 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 vapour. No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until al safety precautions have been read and understood. 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. Huding any incompatibilities Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Keep in fireproof place. Keep container tightly closed and in a

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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 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 physi	ical and chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: 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 vapour
Relative density	: No data available
Solubility	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	

No additional information available

No additional information available
SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Highly flammable liquid and vapour. May form flammable/explosive vapour-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.

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SECTION 11: Toxicological informat	tion
11.1. Information on toxicological effects	;
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.
Custom Acids Surrogate Mix	
ATE CLP (oral)	101.7811704835 mg/kg bodyweight
ATE CLP (dermal)	305.2728954672 mg/kg bodyweight
2-Fluorophenol (367-12-4)	
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
Phenol-d5 (4165-62-2)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h
2,4,6-tribromophenol (118-79-6)	
LD50 oral rat	2000 mg/kg (Rat)
LD50 dermal rabbit	> 8000 mg/kg (Rabbit)
ATE CLP (oral)	2000 mg/kg bodyweight
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 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 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 sensitisation	: Not classified
0	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met May cause cancer
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	: Causes damage to organs.
- ·	
STOT-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: Ecologic	al information

12.1. Toxicity

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)

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12.2. Persistence and degradability Custom Acids Surrogate Mix	
Persistence and degradability	Not established
č ;	Not established.
Phenol-d5 (4165-62-2)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Inhibits biodegradation processes in the soil.
Biochemical oxygen demand (BOD)	1.68 g O□ /g substance
Chemical oxygen demand (COD)	2.28 g O□ /g substance
ThOD	2.38 g O□ /g substance
BOD (% of ThOD)	0.71
2,4,6-tribromophenol (118-79-6)	
Persistence and degradability	Not readily biodegradable in water. Biodegradability in soil: no data available.
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 (Literature study)
12.3. Bioaccumulative potential	
Custom Acids Surrogate Mix	
Bioaccumulative potential	Not established.
Phenol-d5 (4165-62-2)	
BCF fish 1	20 (BCF)
BCF fish 2	1276 - 1496 (BCF)
BCF other aquatic organisms 1	277 (BCF)
BCF other aquatic organisms 2	3.5 - 16 (BCF)
Log Pow	1.46 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation ($500 \le BCF \le 5000$).
2,4,6-tribromophenol (118-79-6) Log Pow	4.02 (QSAR)
Bioaccumulative potential	No bioaccumulation data available.
•	
methanol (67-56-1) BCF fish 1	< 10 /PCE: 72 b: Louiseus idus)
-	< 10 (BCF; 72 h; Leuciscus idus)
Log Pow Bioaccumulative potential	-0.77 (Experimental value; Other) Low potential for bioaccumulation (BCF < 500).
•	Eow potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
methanol (67-56-1)	
Surface tension	0.023 N/m (20 °C)
Log Koc	Koc,PCKOCWIN v1.66; 1; Calculated value
Log Koc 12.5. Results of PBT and vPvB assessment	Koc,PCKOCWIN v1.66; 1; Calculated value
•	Koc,PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessment No additional information available	Koc,PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects	Koc,PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects	Koc,PCKOCWIN v1.66; 1; Calculated value
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information	Koc,PCKOCWIN v1.66; 1; Calculated value t Avoid release to the environment
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects	Koc,PCKOCWIN v1.66; 1; Calculated value t Avoid release to the environment
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods	Koc,PCKOCWIN v1.66; 1; Calculated value t Avoid release to the environment
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations	 Koc,PCKOCWIN v1.66; 1; Calculated value Avoid release to the environment Dispose in a safe manner in accordance with local/national regulations.
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Additional information	 Koc,PCKOCWIN v1.66; 1; Calculated value Avoid release to the environment Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapours are flammable.
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Additional information	 Koc,PCKOCWIN v1.66; 1; Calculated value Avoid release to the environment Dispose in a safe manner in accordance with local/national regulations.
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Additional information	 Koc,PCKOCWIN v1.66; 1; Calculated value Avoid release to the environment Dispose in a safe manner in accordance with local/national regulations. Handle empty containers with care because residual vapours are flammable.
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information	Koc,PCKOCWIN v1.66; 1; Calculated value Koc,PCKOCWIN v1.66; 1; Calculated value Image: Avoid release to the environment Image: Dispose in a safe manner in accordance with local/national regulations. Image: Handle empty containers with care because residual vapours are flammable. Image: Avoid release to the environment. Hazardous waste due to toxicity.
12.5. Results of PBT and vPvB assessment No additional information available 12.6. Other adverse effects Additional information SECTION 13: Disposal considerations 13.1. Waste treatment methods Product/Packaging disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADI	Koc,PCKOCWIN v1.66; 1; Calculated value Koc,PCKOCWIN v1.66; 1; Calculated value Image: Avoid release to the environment Image: Dispose in a safe manner in accordance with local/national regulations. Image: Handle empty containers with care because residual vapours are flammable. Image: Avoid release to the environment. Hazardous waste due to toxicity.
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ccording to Regulation (EC) No. 1907/2006 (REACH)	
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., 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
Classification code (ADN)	: FT1
Subsidiary risk (ADR)	: 6.1
Subsidiary risk (IMDG)	: 6.1
Danger labels (ADR)	: 3, 6.1
2	
Hazard labels (IATA)	: 3, 6.1
Danger labels (IMDG)	: 3, 6.1
Danger labels (ADN)	: 3, 6.1
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IATA) Packing group (IMDG)	
Packing group (ADN)	
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
14.6.1. Overland transport	
Hazard identification number (Kemler No.)	: 336
Classification code (ADR)	: FT1
Orange plates	336 1992
Special provisions (ADR)	: 274
Transport category (ADR)	: 2
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	: 11
, /	
Excepted quantities (ADR)	: E2
Excepted quantities (ADR)	: E2 EN (English) 7/2

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14.6.2. Transport by sea	
Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2, TP13
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Flammable toxic liquid which is not specified by name in this class or, on account of its characteristics, in some other class. Toxic if swallowed, by skin contact or by inhalation.
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
Special provisions (IATA)	: A3
ERG code (IATA)	: 3HP
14.6.4. Inland waterway transport	
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP, EX, TOX, A
Ventilation (ADN)	: VE01, VE02
Number of blue cones/lights (ADN)	: 2
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 REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list 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, labelling 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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