

# Acid Extractables - Skinner List

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Acid Extractables - Skinner List  
Product code : AL0-130188  
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](mailto:info@phenova.com) - [www.phenova.com](http://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. 3 H226  
Acute Tox. 4 (Inhalation) H332  
Carc. 2 H351

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

Carc.Cat.3; R40  
E; R2  
Xn; R20  
R10

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) :



Signal word (CLP) : Warning  
Hazard statements (CLP) : H226 - Flammable liquid and vapour  
H332 - Harmful if inhaled  
H351 - Suspected of causing cancer  
Precautionary statements (CLP) : P233 - Keep container tightly closed

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P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P271 - Use only outdoors or in a well-ventilated area  
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  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P370+P378 - In case of fire: Use media other than water to extinguish  
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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methylene Chloride (Component)	(CAS-No.) 75-09-2 (EC-No.) 200-838-9 (EC Index-No.) 602-004-00-3	98.4	Carc. 2, H351
2,4-Dimethylphenol (Component)	(CAS-No.) 105-67-9 (EC-No.) 203-321-6 (EC Index-No.) 604-006-00-X	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4-dinitrophenol (Component)	(CAS-No.) 51-28-5 (EC-No.) 200-087-7 (EC Index-No.) 609-041-00-4	0.2	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400
3-Methylphenol (Component)	(CAS-No.) 108-39-4 (EC-No.) 203-577-9 (EC Index-No.) 604-004-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
4-Methylphenol (Component)	(CAS-No.) 106-44-5 (EC-No.) 203-398-6 (EC Index-No.) 604-004-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
2-Methylphenol (Component)	(CAS-No.) 95-48-7 (EC-No.) 202-423-8 (EC Index-No.) 604-004-00-9	0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314
phenol (Component)	(CAS-No.) 108-95-2 (EC-No.) 203-632-7 (EC Index-No.) 604-001-00-2	0.2	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
thiophenol (Component)	(CAS-No.) 108-98-5 (EC-No.) 203-635-3	0.2	Flam. Liq. 3, H226 Acute Tox. 1 (Inhalation), H330 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Skin Irrit. 2, H315

Name	Product identifier	Specific concentration limits
phenol (Component)	(CAS-No.) 108-95-2 (EC-No.) 203-632-7 (EC Index-No.) 604-001-00-2	( 1 =<C < 3) Eye Irrit. 2, H319 ( 1 =<C < 3) Skin Irrit. 2, H315 (C >= 3) Skin Corr. 1B, H314

## 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 : Assure fresh air breathing. Allow the victim to rest.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

No additional information available

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

No additional information available

## 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 : 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 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.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 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 vapours 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 vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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 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

2-Methylphenol (95-48-7)		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

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<b>2-Methylphenol (95-48-7)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>3-Methylphenol (108-39-4)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>4-Methylphenol (106-44-5)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV TWA (ppm)	5 ppm (Cresols (all isomers); EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	5 ppm (Crésols (tous isomères); Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	5 ppm (Crésols (tous isomères); France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (Cresol, all isomers; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	22 mg/m <sup>3</sup> (Kresol (alle isomeren); Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
<b>phenol (108-95-2)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)

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<b>phenol (108-95-2)</b>		
EU	IOELV TWA (ppm)	2 ppm (Phenol; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)
EU	IOELV STEL (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> (Phenol; EU; Short time value; Indicative occupational exposure limit value)
EU	IOELV STEL (ppm)	4 ppm (Phenol; EU; Short time value; Indicative occupational exposure limit value)
Belgium	Limit value (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	2 ppm (Phénol; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Short time value (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> (Phénol; Belgium; Short time value)
Belgium	Short time value (ppm)	4 ppm (Phénol; Belgium; Short time value)
France	VLE (mg/m <sup>3</sup> )	15.6 mg/m <sup>3</sup> (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	4 ppm (Phénol; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	7.8 mg/m <sup>3</sup> (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
France	VME (ppm)	2 ppm (Phénol; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5 ppm (Phenol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	8 mg/m <sup>3</sup> (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
Netherlands	Grenswaarde TGG 8H (ppm)	2 ppm (Fenol; Netherlands; Time-weighted average exposure limit 8 h; Public occupational exposure limit value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	7.8 mg/m <sup>3</sup> Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	2 ppm Phenol; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	16 mg/m <sup>3</sup> Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	4 ppm Phenol; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
<b>thiophenol (108-98-5)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	2.3 mg/m <sup>3</sup> (Phénylmercaptan; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	0.5 ppm (Phénylmercaptan; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Thiophenol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
France	VME (ppm)	0.5 ppm (Thiophenol; France; Time-weighted average exposure limit 8 h; VL: Valeur non réglementaire indicative)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.1 ppm (Phenyl mercaptan; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
<b>Methylene Chloride (75-09-2)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	177 mg/m <sup>3</sup> (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h)
Belgium	Limit value (ppm)	50 ppm (Chlorure de méthylène; Belgium; Time-weighted average exposure limit 8 h)
France	VLE (mg/m <sup>3</sup> )	356 mg/m <sup>3</sup> (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VLE (ppm)	100 ppm (Dichlorométhane; France; Short time value; VRC: Valeur réglementaire contraignante)
France	VME (mg/m <sup>3</sup> )	178 mg/m <sup>3</sup> (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)

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Methylene Chloride (75-09-2)		
France	VME (ppm)	50 ppm (Dichlorométhane; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50 ppm (Dichloromethane (Methylene chloride); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL TWA (ppm)	100 ppm Dichloromethane; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1060 mg/m <sup>3</sup> Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)
United Kingdom	WEL STEL (ppm)	300 ppm Dichloromethane; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)

### 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

: Wear appropriate mask.

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
Colour	: Colourless.
Odour	: characteristic.
pH	: 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)	: 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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

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### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 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 : Inhalation: Harmful if inhaled.

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ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h
<b>2,4-Dimethylphenol (105-67-9)</b>	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
<b>2,4-dinitrophenol (51-28-5)</b>	
LD50 oral rat	30 mg/kg (Rat)
ATE CLP (oral)	30 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
<b>2-Methylphenol (95-48-7)</b>	
LD50 oral rat	121 mg/kg (Rat)
LD50 dermal rat	620 mg/kg (Rat)
LD50 dermal rabbit	890 mg/kg (Rabbit)
ATE CLP (oral)	121 mg/kg bodyweight
ATE CLP (dermal)	620 mg/kg bodyweight
<b>3-Methylphenol (108-39-4)</b>	
LD50 oral rat	242 mg/kg (Rat)
LD50 dermal rat	1100 mg/kg (Rat)
LD50 dermal rabbit	2050 mg/kg (Rabbit)
ATE CLP (oral)	242 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
<b>4-Methylphenol (106-44-5)</b>	
LD50 oral rat	207 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	301 mg/kg (Rabbit)
ATE CLP (oral)	207 mg/kg bodyweight
ATE CLP (dermal)	301 mg/kg bodyweight
<b>phenol (108-95-2)</b>	
LD50 oral rat	650 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rat	660 mg/kg (Rat; Experimental value; Equivalent or similar to OECD 402)
LD50 dermal rabbit	850 - 1400 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	0.32 mg/l/4h (Rat; Literature study)
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	660 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	0.32 mg/l/4h
ATE CLP (dust,mist)	0.32 mg/l/4h
<b>thiophenol (108-98-5)</b>	
LD50 oral rat	46 mg/kg (Rat)
LD50 dermal rat	300 mg/kg (Rat)
LD50 dermal rabbit	134 mg/kg (Rabbit)

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<b>thiophenol (108-98-5)</b>	
LC50 inhalation rat (mg/l)	0.15 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	33 ppm/4h (Rat)
<b>Methylene Chloride (75-09-2)</b>	
LD50 oral rat	> 2000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study)
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 sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer. May cause cancer
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified Based on available data, the classification criteria are not met
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	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>2,4-Dimethylphenol (105-67-9)</b>	
LC50 fish 1	7.8 mg/l (LC50; 96 h)
EC50 Daphnia 1	2.1 mg/l (EC50; 48 h)
Threshold limit algae 2	32 mg/l (EC50; 72 h)
<b>2,4-dinitrophenol (51-28-5)</b>	
LC50 fish 1	0.62 mg/l (LC50; 96 h; <i>Lepomis macrochirus</i> )
EC50 Daphnia 1	4.39 mg/l (EC50; 48 h)
<b>2-Methylphenol (95-48-7)</b>	
EC50 other aquatic organisms 1	65 mg/l (96 h; <i>Selenastrum capricornutum</i> )
LC50 fish 2	7.9 - 8.4 mg/l (LC50; 96 h)
EC50 Daphnia 2	5 - 9.5 mg/l (EC50; 48 h)
<b>3-Methylphenol (108-39-4)</b>	
LC50 fish 1	8.9 mg/l (LC50; 96 h; <i>Salmo gairdneri</i> )
EC50 Daphnia 1	8.9 mg/l (EC50; 24 h)
Threshold limit algae 1	15 mg/l (EC0; 192 h)
<b>4-Methylphenol (106-44-5)</b>	
LC50 fish 2	7.5 mg/l (LC50; 96 h)
EC50 Daphnia 2	1.4 - 21.1 mg/l (EC50; 48 h)
Threshold limit algae 2	21 mg/l (EC50; 48 h)
<b>phenol (108-95-2)</b>	
LC50 other aquatic organisms 1	0.04 mg/l (4 days; <i>Rana</i> sp.; LC50)
EC50 Daphnia 2	6.6 mg/l (EC50; 48 h; <i>Daphnia magna</i> ; Static system)
<b>Methylene Chloride (75-09-2)</b>	
LC50 fish 1	193 mg/l (LC50; 96 h; <i>Pimephales promelas</i> )
EC50 Daphnia 1	168.2 mg/l (EC50; 48 h)



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### 12.2. Persistence and degradability

Acid Extractables - Skinner List	
Persistence and degradability	Not established.
2,4-dinitrophenol (51-28-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available.
2-Methylphenol (95-48-7)	
Persistence and degradability	Readily biodegradable in water. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.69 - 1.74 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.38 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.65
3-Methylphenol (108-39-4)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	1.7 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.68
4-Methylphenol (106-44-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
Biochemical oxygen demand (BOD)	1.45 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.52 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.57
phenol (108-95-2)	
Persistence and degradability	Readily biodegradable in water. Photolysis in water. Readily biodegradable in the soil. Inhibits biodegradation processes in the soil. Low potential for adsorption in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	1.68 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.28 g O <sub>2</sub> /g substance
ThOD	2.38 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.71
thiophenol (108-98-5)	
Persistence and degradability	Biodegradability in water: no data available.
Methylene Chloride (75-09-2)	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil.

### 12.3. Bioaccumulative potential

Acid Extractables - Skinner List	
Bioaccumulative potential	Not established.
2,4-Dimethylphenol (105-67-9)	
BCF fish 1	150 (BCF; 672 h; Lepomis macrochirus)
Log Pow	2.2 - 2.5
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,4-dinitrophenol (51-28-5)	
BCF fish 1	< 3.7 (BCF)
Log Pow	1.05 - 1.59
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2-Methylphenol (95-48-7)	
Log Pow	1.5 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
3-Methylphenol (108-39-4)	
BCF fish 1	20 (BCF; 72 h)
BCF fish 2	10.7 (BCF)
BCF other aquatic organisms 1	4900 (BCF; 24 h)
Log Pow	1.96 - 2.01 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
4-Methylphenol (106-44-5)	
BCF fish 1	4 (BCF)

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<b>4-Methylphenol (106-44-5)</b>	
Log Pow	1.97 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>phenol (108-95-2)</b>	
Log Pow	1.47 (Experimental value; Equivalent or similar to OECD 117; 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>thiophenol (108-98-5)</b>	
Log Pow	2.52
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Methylene Chloride (75-09-2)</b>	
BCF fish 1	2 - 40 (BCF)
Log Pow	1.25 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

<b>2,4-dinitrophenol (51-28-5)</b>	
Ecology - soil	Toxic to flora.
<b>2-Methylphenol (95-48-7)</b>	
Surface tension	0.04 N/m (20 °C)
<b>3-Methylphenol (108-39-4)</b>	
Surface tension	0.04 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
<b>4-Methylphenol (106-44-5)</b>	
Surface tension	0.041 N/m (40 °C)
<b>phenol (108-95-2)</b>	
Surface tension	0.0713 N/m (20 °C)
<b>Methylene Chloride (75-09-2)</b>	
Surface tension	0.028 N/m (20 °C)
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

### 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

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours 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) : 2810  
UN-No. (IATA) : 2810  
UN-No. (IMDG) : 2810  
UN-No. (ADN) : 2810

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, ORGANIC, N.O.S.  
Proper Shipping Name (IATA) : Toxic liquid, organic, n.o.s.  
Proper Shipping Name (IMDG) : TOXIC LIQUID, ORGANIC, N.O.S.  
Proper Shipping Name (ADN) : TOXIC LIQUID, ORGANIC, N.O.S.  
Transport document description (ADR) : UN 2810 TOXIC LIQUID, ORGANIC, N.O.S., 6.1, III, (E)

### 14.3. Packing group

Class (ADR) : 6.1  
Classification code (ADR) : T1

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Class (IATA) : 6.1  
Class (IMDG) : 6.1  
Class (ADN) : 6.1  
Classification code (ADN) : T1  
Danger labels (ADR) : 6.1



Division (IATA) : 6.1  
Hazard labels (IATA) : 6.1



Danger labels (IMDG) : 6.1



Danger labels (ADN) : 6.1



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IATA) : III  
Packing group (IMDG) : III  
Packing group (ADN) : III

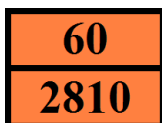
### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Hazard identification number (Kemler No.) : 60  
Classification code (ADR) : T1  
Orange plates :



Special provisions (ADR) : 274, 614  
Transport category (ADR) : 2  
Tunnel restriction code (ADR) : E  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
EAC code : 2X  
APP code : B

#### 14.6.2. Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A

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EmS-No. (Spillage) : S-A  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

### 14.6.3. Air transport

CAO packing instructions (IATA) : 663  
CAO max net quantity (IATA) : 220L  
PCA packing instructions (IATA) : 655  
PCA Limited quantities (IATA) : Y642  
PCA limited quantity max net quantity (IATA) : 2L  
PCA max net quantity (IATA) : 60L  
PCA Excepted quantities (IATA) : E1  
Special provisions (IATA) : A3, A4, A137  
ERG code (IATA) : 6L

### 14.6.4. Inland waterway transport

Special provisions (ADN) : 274, 614, 802  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP, TOX, A  
Ventilation (ADN) : VE02  
Number of blue cones/lights (ADN) : 0  
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

##### Germany

Water hazard class (WGK) : 2 - hazard to waters

### 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.

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