

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



**Trade name :** Paint stripping agent 181

**Revision date :** 01.12.2021

**Version (Revision) :** 12.0.0 (11.0.0)

**Print date :** 10.12.2021

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

**1.1 Product identifier**

Paint stripping agent 181

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

**Relevant identified uses**

**Products Category [PC]**

PC 9a - Coatings and paints, thinners, paint removers

**1.3 Details of the supplier of the safety data sheet**

**Supplier :** PERKUTE Maschinenbau GmbH

**Street :** Düsterberstr. 10

**Postal code/city :** 48432 Rheine

**Telephone :** +495971/808168-0

**Telefax :** +495971/8081681

**Information contact :** info@perkute.de

**1.4 Emergency telephone number**

+49 5971/ 8081680 (08.00 - 16.00 Uhr)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Skin Corr. 1 ; H314 - Skin corrosion/irritation : Category 1 ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

**2.2 Label elements**

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

**Hazard pictograms**



Health hazard (GHS08) · Corrosion (GHS05) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

BENZYL ALCOHOL ; INDEX No. : 603-057-00-5

ETHANEDIOL ; INDEX No. : 603-027-00-1

SODIUM METHANOLATE ; INDEX No. : 603-040-00-2

**Hazard statements**

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

H314 Causes severe skin burns and eye damage.

H302+H332 Harmful if swallowed or if inhaled.

**Precautionary statements**

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P501	Dispose of contents/container according to local regulations

### Additional information

P270 - Do not eat, drink or smoke when using this product. P363 - Wash contaminated clothing before reuse.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

ORGANIC SOLVENTS, ADDITIVES

### 3.2 Mixtures

#### Hazardous ingredients

BENZYL ALCOHOL ; REACH No. : 01-2119492630-38 ; EC No. : 202-859-9; CAS No. : 100-51-6

Weight fraction :  $\geq 75 - < 100$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319

ETHANEDIOL ; REACH No. : 01-2119456816-28 ; EC No. : 203-473-3; CAS No. : 107-21-1

Weight fraction :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302

SODIUM METHANOLATE ; REACH No. : 01-2119519241-51 ; EC No. : 204-699-5; CAS No. : 124-41-4

Weight fraction :  $\geq 1 - < 3$  %

Classification 1272/2008 [CLP] : Flam. Sol. 1 ; H228 Self-heat. 1 ; H251 Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

**This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH**

None

**This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH**

None

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart

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and consult an ophthalmologist.

### After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect).

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

Respiratory complaints Cough Pulmonary irritation Serious eye damage/eye irritation

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

None

## SECTION 5: Firefighting measures

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet

#### Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically. Wipe up with absorbent material (eg. cloth, fleece). Clear contaminated areas thoroughly. Clean with detergents. Avoid solvent cleaners. Collect in closed and suitable containers for disposal.

### 6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 National regulations see section 15.

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

Wear personal protection equipment (refer to section 8). Working places should be designed to allow cleaning at any time.

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists

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## Measures to prevent fire

Usual measures for fire prevention.

## Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin.

## Environmental precautions

Shafts and sewers must be protected from entry of the product.

## Specific requirements or handling rules

When diluting/dissolving, always have the water ready first, then slowly stir in the product.

## 7.2 Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep/Store only in original container.

### Hints on joint storage

**Storage class (TRGS 510) :** 8A

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

BENZYL ALCOHOL ; CAS No. : 100-51-6

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 5 ppm / 22 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : H, Y  
Version : 29.03.2019

ETHANEDIOL ; CAS No. : 107-21-1

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 10 ppm / 26 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : H,Y  
Version : 29.03.2019

Limit value type (country of origin) : STEL ( EC )  
Limit value : 40 ppm / 104 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 52 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

#### DNEL-/PNEC-values

##### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Oral  
Exposure frequency : Short-term  
Limit value : 25 mg/kg  
Limit value type : DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 5 mg/kg  
Limit value type : DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Exposure route : Inhalation

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Exposure frequency :	Short-term
Limit value :	40,55 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	8,11 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	28,5 mg/kg
Limit value type :	DNEL Consumer (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	5,7 mg/kg
Limit value type :	DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Inhalation
Exposure frequency :	Short-term
Limit value :	450 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	90 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Dermal
Exposure frequency :	Short-term
Limit value :	47 mg/kg
Limit value type :	DNEL worker (systemic) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	9,5 mg/kg
Limit value type :	DNEL Consumer (local) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	7 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	53 mg/kg
Limit value type :	DNEL worker (local) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	35 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	106 mg/kg

**PNEC**

Limit value type :	PNEC (Aquatic, freshwater) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	1 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	2,3 mg/l
Limit value type :	PNEC (Aquatic, marine water) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	0,1 mg/l
Limit value type :	PNEC (Sediment, freshwater) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	5,27 mg/kg

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Limit value type :	PNEC (Sediment, marine water) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	0,527 mg/kg
Limit value type :	PNEC (Soil) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	0,456 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Limit value :	39 mg/l
Limit value type :	PNEC (Aquatic, freshwater) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	10 mg/l
Limit value type :	PNEC (Aquatic, intermittent release) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	10 mg/l
Limit value type :	PNEC (Aquatic, marine water) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	1 mg/l
Limit value type :	PNEC (Sediment, freshwater) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	20,9 mg/kg
Limit value type :	PNEC (Soil) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	1,53 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( ETHANEDIOL ; CAS No. : 107-21-1 )
Limit value :	199,5 mg/l

## 8.2 Exposure controls



### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection Face protection shield

#### Skin protection

##### Hand protection

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** Butyl caoutchouc (butyl rubber)

**Breakthrough time :** >= 480 min

**Thickness of the glove material :** 0,5 mm

**Additional hand protection measures :** Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Remark :** The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Wear chemical resistant apron.  
lab coat

##### Recommended material :

Apron : Butyl caoutchouc (butyl rubber) ; PVC (polyvinyl chloride)  
lab coat : Natural fibres (e.g. cotton) ; heat-resistant synthetic fibres

**Additional body protection measures :** For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes

**Remark :** Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

##### Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : ABEK

##### Remark

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The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

## General information

Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** colourless

**Odour :** bitter almonds

#### Safety characteristics

<b>Melting point/freezing point :</b>			not determined	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		190,0 - 210,0	°C
<b>Decomposition temperature :</b>			No data available	
<b>Flash point :</b>		approx.	96,0	°C DIN 51755 part 1
<b>Auto-ignition temperature :</b>			410,0	°C
<b>Oxidising liquids :</b>			Not applicable.	
<b>Lower explosion limit :</b>			1,3	Vol-%
<b>Upper explosion limit :</b>			28,0	Vol-%
<b>Explosive properties :</b>			Not applicable.	
<b>Vapour pressure 20°C):</b>	( 20 °C )		No data available	
<b>Density :</b>	( 20 °C )	approx.	1,060	g/cm <sup>3</sup>
<b>Water solubility :</b>	( 20 °C )		partially miscible	
<b>pH-value:</b>	( 20 °C / conc. )	>	11,5	
<b>pH-value:</b>	( 20 °C / 10 g/l )	approx.	10,2	
<b>log P O/W :</b>			No data available	
<b>Cinematic viscosity :</b>	( 40 °C )		No data available	
<b>Odour threshold :</b>			No data available	
<b>Relative vapour density :</b>	( 20 °C )		No data available	(air = 1)
<b>Vapourisation rate :</b>			No data available	(Ether = 1)
<b>Maximum VOC content (EC) :</b>	( 20 °C )		0,0	Wt % gem. RL 2010/75/EG

### 9.2 Other information

Corrosion rate on steel or aluminum surfaces at a test temperature of 55 °C < 6.25 mm per year ; Observe technical data sheet/instructions for use.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

### 10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

Do not dilute with water.

After contact with water Formation of: Methanol ; Caustic soda

### 10.4 Conditions to avoid

No information available.

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## 10.5 Incompatible materials

Acid Oxidizing agent.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful by inhalation and if swallowed.

##### Acute oral toxicity

Parameter :	LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1230 mg/kg
Parameter :	LD50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	7712 mg/kg
Parameter :	LD50 ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	1687 mg/kg
Method :	OECD 401

##### Acute dermal toxicity

Parameter :	LD50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2000 mg/kg
Parameter :	LD50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Dermal
Species :	Mouse
Effective dose :	> 3500 mg/kg

##### Acute inhalation toxicity

Parameter :	LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 4178 mg/m <sup>3</sup>
Exposure time :	4 h
Method :	OECD 403
Parameter :	LC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 2,5 mg/l
Exposure time :	6 h

#### Corrosion

Causes severe skin burns and eye damage.

Bridging principle "Dilution". pH

##### Skin corrosion/irritation

Parameter :	Skin corrosion/irritation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Species :	Rabbit
Result :	Not irritant
Method :	OECD 404

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Parameter : Skin corrosion/irritation ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )  
Species : Rabbit  
Result : Corrosive

### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Rabbit  
Parameter : Rötung der Bindehaut  
Effective dose : 2  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Rabbit  
Parameter : Ödem der Bindehaut  
Effective dose : 0,7 - 1  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Rabbit  
Parameter : Hornhauttrübung  
Effective dose : 1  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Rabbit  
Parameter : Irisläsion  
Effective dose : 0 - 0,3  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )  
Result : Causes serious eye damage

### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Parameter : Skin sensitisation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Species : Meerschweinchen  
Result : nicht sensibilisierend  
Method : OECD 406

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### 11.2 Toxicokinetics, metabolism and distribution

No information available.

### 11.3 Symptoms related to the physical, chemical and toxicological characteristics

There are no data available on the preparation/mixture itself.

### 11.4 Other adverse effects

No information available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Based on available data, the classification criteria are not met.

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	460 mg/l
Exposure time :	96 h
Parameter :	LC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	72860 mg/l
Exposure time :	96 h
Method :	statischer Test

##### Chronic (long-term) fish toxicity

Parameter :	NOEC ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	15380 mg/l
Exposure time :	7 D

##### Acute (short-term) toxicity to crustacea

Parameter :	EC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Species :	Daphnia magna (Big water flea)
Effective dose :	230 mg/l
Exposure time :	48 h
Method :	OECD 202
Parameter :	EC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Daphnia magna (Big water flea)
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 202

##### Chronic (long-term) toxicity to crustacea

Parameter :	NOEC ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Species :	Daphnia magna (Big water flea)
Effective dose :	51 mg/l
Exposure time :	21 D
Method :	OECD 211
Parameter :	NOEC ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Ceriodaphnia spec
Effective dose :	8590 mg/l
Exposure time :	7 D

##### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter :	EC50 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
Species :	Pseudokirchneriella subcapitata
Effective dose :	770 mg/l
Exposure time :	72 h
Method :	OECD 201
Parameter :	EC50 ( ETHANEDIOL ; CAS No. : 107-21-1 )
Species :	Selenastrum capricornutum
Effective dose :	6500 - 13000 mg/l
Exposure time :	96 h

##### Toxicity to microorganisms

Parameter :	EC10 ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )
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Species : Pseudomonas putida  
Effective dose : 658 mg/l  
Exposure time : 16 h  
Parameter : EL10 ( ETHANEDIOL ; CAS No. : 107-21-1 )  
Species : Belebtschlamm  
Effective dose : > 1995 mg/l  
Exposure time : 0,5 h  
Method : ISO 8192

## 12.2 Persistence and degradability

### Biodegradation

Parameter : Biodegradation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Degradation rate : 92 - 96 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301C  
Parameter : Biodegradation ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Degradation rate : 95 - 97 %  
Test duration : 21 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301A  
Parameter : Biodegradation ( ETHANEDIOL ; CAS No. : 107-21-1 )  
Inoculum : Degree of elimination  
Degradation rate : 90 %  
Test duration : 21 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : Biodegradation ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )  
Evaluation : Readily biodegradable (according to OECD criteria).  
Parameter : BOD (% of ThOD) ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )  
Inoculum : Belebtschlamm  
Evaluation parameter : Aerobic  
Degradation rate : 90 - 100 %  
Test duration : 20 D

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Value : 1,37  
Parameter : Bioconcentration factor (BCF) ( SODIUM METHANOLATE ; CAS No. : 124-41-4 )  
Cyprinus carpio (Common Carp)  
Value : 4,5  
72 h  
Parameter : Log KOW ( BENZYL ALCOHOL ; CAS No. : 100-51-6 )  
Value : 1,05  
Parameter : Log KOW ( ETHANEDIOL ; CAS No. : 107-21-1 )  
Value : -1,36

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

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The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised. Dispose according to legislation.

## 13.1 Waste treatment methods

### Directive 2008/98/EC (Waste Framework Directive)

#### Before intended use

#### Waste codes/waste designations according to EWC/AVV

Waste code (EWC/AVV) : 08 01 17\* (wastes from paint or varnish removal containing organic solvents or other dangerous substances)

## 13.2 Additional information

None

## SECTION 14: Transport information

### 14.1 UN number

UN 3267

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM METHYLATE)

#### Sea transport (IMDG)

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM METHYLATE)

#### Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (SODIUM METHYLATE)

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8  
**Classification code :** C7  
**Hazard identification number (Kemler No.) :** 80  
**Tunnel restriction code :** E  
**Special provisions :** LQ 1 | · E 2  
**Hazard label(s) :** 8

#### Sea transport (IMDG)

**Class(es) :** 8  
**EmS-No. :** F-A / S-B  
**Special provisions :** LQ 1 | · E 2 · IMDG-Code segregation group 18 - Alkalis  
**Hazard label(s) :** 8

#### Air transport (ICAO-TI / IATA-DGR)

**Class(es) :** 8  
**Special provisions :** E 2  
**Hazard label(s) :** 8

### 14.4 Packing group

II

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No

**Sea transport (IMDG) :** No

**Air transport (ICAO-TI / IATA-DGR) :** No

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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## according to Regulation (EC) No. 1907/2006 (REACH)



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

#### EU legislation

according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 830/2015)

#### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

#### National regulations

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 5 %

##### Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

Percentage of substances WGK 3 : 0 %

Percentage of substances WGK 3 with M-Factor : 0 %

Percentage of substances WGK 2 : 2,42 %

Percentage of substances WGK 2 with M-Factor : 0 %

Percentage of substances WGK 1 : 97,58 %

Percentage of floating liquids : 0 %

Percentage of substances non-hazardous to water (nwg) : 0 %

Percentage of substances unidentified : 0 %

### 15.2 Chemical safety assessment

No information available.

### 15.3 Additional information

None

## SECTION 16: Other information

### 16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Label elements - Additional information · 07. Hints on joint storage - Storage class

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road

(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

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NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
OECD: Organization for Economic Cooperation and Development  
PBT: persistent, bioaccumulative, toxic  
PC: Product category  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation and Authorization of Chemicals  
RID: Regulations concerning the international carriage of dangerous goods by rail  
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
STP: Sewage treatment plant  
SVHC: Substance of Very High Concern  
TLV: Threshold Limit Value  
TWA: Time Weighted Average  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent, very bioaccumulative

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

See SECTION 2.1 (classification).

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H228	Flammable solid.
H251	Self-heating: may catch fire.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.