

Trade name: Armaflex Cleaner

Current version : 3.0.0, issued: 20.08.2020

Replaced version: 2.4.0, issued: 11.04.2019

Region: GB

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

### 1.1 Product identifier

Trade name

**Armaflex Cleaner**

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

**Relevant identified uses of the substance or mixture**

designed for cleaning surfaces/substrates before applying Armaflex glues and cleaning tools (except Armaflex SF990 and Armaflex Ultima SF990)

For industrial and professional use only

**Uses advised against**

No data available.

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

**Address**

Armacell GmbH  
Robert-Bosch-Straße 10  
48153 Münster

Telephone no. +49 (0) 251 - 7603-200

Fax no. +49 (0) 251 - 7603-561

e-mail info.de@armacell.com

**Information provided by / telephone**

Dr. Heribert Quante, Tel.: +49 (0) 251 - 7603-227

**Advice on Safety Data Sheet**

heribert.quante@armacell.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

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

**Hazard pictograms**



GHS02



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

ethyl-acetate

**Hazard statement(s)**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H412

Harmful to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH066

Repeated exposure may cause skin dryness or cracking.

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**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P391 Collect spillage.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

Vapours can form an explosive mixture with air.  
 PBT assessment  
 The components of this product are not considered to be a PBT.  
 vPvB assessment  
 The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>ethyl-acetate</b>			
	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 70.00 - < 90.00	%-b.w.
2	<b>butanone</b>			
	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 10.00 - < 25.00	%-b.w.
3	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>			
	64742-49-0 926-605-8 - 01-2119486291-36	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 STOT SE 3; H336 EUH066	>= 5.00 - < 10.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

**After inhalation**

When inhaled remove to fresh air and seek medical aid.

**After skin contact**

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

**After ingestion**

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

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

**Symptoms**

Irritating to eyes, respiratory system and skin. breath difficulties; Coughing; Light-headedness; Dizziness; Headache; Nausea; reddening of the skin; blistering

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

No data available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray jet; Carbon dioxide; Dry chemical extinguisher; Foam

#### Unsuitable extinguishing media

High power water jet

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

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Exclude sources of ignition and ventilate the area. Do not inhale vapours. Ensure adequate ventilation. Use personal protective clothing. Avoid contact with skin, eyes and clothing.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours. Avoid contact with eyes and skin.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. No sparking tools should be used.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

#### Incompatible products

Substances to be avoided, see section 10.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4

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<b>2017/164/EU</b>				
Ethyl acetate				
WEL short-term (15 min reference period)		1468	mg/m <sup>3</sup>	400 ppm
WEL long-term (8-hr TWA reference period)		734	mg/m <sup>3</sup>	200 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Ethyl acetate				
WEL short-term (15 min reference period)				400 ppm
WEL long-term (8-hr TWA reference period)				200 ppm
<b>2</b>	<b>butanone</b>	<b>78-93-3</b>		<b>201-159-0</b>
<b>2000/39/EC</b>				
Butanone				
WEL short-term (15 min reference period)		900	mg/m <sup>3</sup>	300 ppm
WEL long-term (8-hr TWA reference period)		600	mg/m <sup>3</sup>	200 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Butan-2-one				
WEL short-term (15 min reference period)		899	mg/m <sup>3</sup>	300 ppm
WEL long-term (8-hr TWA reference period)		600	mg/m <sup>3</sup>	200 ppm
Comments		Sk, BMGV		
<b>3</b>	<b>n-hexane</b>	<b>110-54-3</b>		<b>203-777-6</b>
<b>2006/15/EC</b>				
n-Hexane				
WEL long-term (8-hr TWA reference period)		72	mg/m <sup>3</sup>	20 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
n-Hexane				
WEL long-term (8-hr TWA reference period)		72	mg/m <sup>3</sup>	20 ppm
<b>4</b>	<b>cyclohexane</b>	<b>110-82-7</b>		<b>203-806-2</b>
<b>2006/15/EC</b>				
Cyclohexane				
WEL long-term (8-hr TWA reference period)		700	mg/m <sup>3</sup>	200 ppm
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Cyclohexane				
WEL short-term (15 min reference period)		1050	mg/m <sup>3</sup>	300 ppm
WEL long-term (8-hr TWA reference period)		350	mg/m <sup>3</sup>	100 ppm

### DNEL, DMEL and PNEC values

#### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>ethyl-acetate</b>			<b>141-78-6</b> <b>205-500-4</b>	
	dermal	Long term (chronic)	systemic	63	mg/kg/day
	inhalative	Short term (acut)	systemic	1468	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	734	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	1468	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	734	mg/m <sup>3</sup>
2	<b>butanone</b>			<b>78-93-3</b> <b>201-159-0</b>	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600.00	mg/m <sup>3</sup>
3	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0</b> <b>926-605-8</b>	
	dermal	Long term (chronic)	systemic	13964	mg/kg/day
	inhalative	Long term (chronic)	systemic	5306	mg/m <sup>3</sup>

#### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>ethyl-acetate</b>			<b>141-78-6</b> <b>205-500-4</b>	
	oral	Long term (chronic)	systemic	4.5	mg/kg/day
	dermal	Long term (chronic)	systemic	37	mg/kg/day
	inhalative	Short term (acut)	systemic	734	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	367	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	734	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	367	mg/m <sup>3</sup>
2	<b>butanone</b>			<b>78-93-3</b> <b>201-159-0</b>	

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	oral	Long term (chronic)	systemic	31	mg/kg/day
	dermal	Long term (chronic)	systemic	412	mg/kg/day
	inhalative	Long term (chronic)	systemic	106	mg/m <sup>3</sup>
3	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>			<b>64742-49-0 926-605-8</b>	
	oral	Long term (chronic)	systemic	1301	mg/kg/day
	dermal	Long term (chronic)	systemic	1377	mg/kg/day
	inhalative	Long term (chronic)	systemic	1131	mg/m <sup>3</sup>

**PNEC values**

No	Substance name	CAS / EC no
	ecological compartment	Type
		Value
1	<b>ethyl-acetate</b>	<b>141-78-6 205-500-4</b>
	water	fresh water
		0.24 mg/L
	water	marine water
		0.024 mg/L
	water	Aqua intermittent
		1.65 mg/L
	water	fresh water sediment
		1.15 mg/kg dry weight
	water	marine water sediment
		0.115 mg/kg dry weight
	soil	-
		0.148 mg/kg dry weight
	sewage treatment plant	-
		650 mg/L
	secondary poisoning	-
		200 mg/kg
2	<b>butanone</b>	<b>78-93-3 201-159-0</b>
	water	fresh water
		55.8 mg/L
	water	marine water
		55.8 mg/L
	water	Aqua intermittent
		55.8 mg/L
	water	fresh water sediment
		284.74 mg/kg
	with reference to: dry weight	
	water	marine water sediment
		284.7 mg/kg
	with reference to: dry weight	
	soil	-
		22.5 mg/kg
	with reference to: dry weight	
	sewage treatment plant	-
		709 mg/L
	secondary poisoning	-
		1000 mg/kg
	with reference to: food	

**8.2 Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

**Personal protective equipment**

**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of insufficient ventilation and during spray application respiratory protection necessary. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator A-P2

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	neoprene		
Appropriate Material	nitrile rubber		
Material thickness	>	0.7	mm
Breakthrough time	>	60	min

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Form/Colour

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liquid			
colourless			
<b>Odour</b>			
of solvents			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	appr.	70	°C
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	appr.	-20	°C
Method	Cleveland closed cup		
<b>Auto-ignition temperature</b>			
Value		274	°C
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value		1	% vol
<b>Upper flammability or explosive limits</b>			
Value		13	% vol
<b>Vapour pressure</b>			
Value	<	1100	hPa
Reference temperature		50	°C
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	appr.	0.9	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility in water</b>			
No data available			
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
	log Pow		6.8
	Reference temperature		25 °C
	Source	ECHA	
2	butanone	78-93-3	201-159-0
	log Pow		0.3
	Reference temperature		40 °C
	Method	OECD 117	
	Source	ECHA	
<b>Viscosity</b>			
Value	<	21	mm <sup>2</sup> /s

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Reference temperature	40 °C
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## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

None, when used as directed.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

strong oxidizing agents

### 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LD50	>	5600	mg/kg bodyweight
Species	rat		
Source	ECHA		
2	butanone	78-93-3	201-159-0
LD50		2054	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA / Read across		
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
LD50	>	20000	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Acute inhalational toxicity			
No data available			
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	low-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	butanone	78-93-3	201-159-0
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Serious eye damage/irritation			

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No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		low-irritant	
2	butanone	78-93-3	201-159-0
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	
<b>Respiratory or skin sensitisation</b>			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	butanone	78-93-3	201-159-0
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
<b>Germ cell mutagenicity</b>			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		rat	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vitro mammalian cell gene mutation test	
Species		Mouse lymphoma cells	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus	
Species		mouse	
Method		OECD 474	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Reproduction toxicity</b>			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Route of exposure		inhalational	
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Source		ECHA	



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Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>STOT - single exposure</b>			
No data available			
<b>STOT - repeated exposure</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Route of exposure		inhalational	
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>2</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
Source		ECHA / Read across	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>			
No data available			
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>			
Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting.			

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
LC50		230	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Source		ECHA	
<b>2</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
LC50		2993	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	
<b>3</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
LL50		12	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>ethyl-acetate</b>	<b>141-78-6</b>	<b>205-500-4</b>
EC50		1350	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Source		ECHA	
<b>2</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
EC50		308	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
<b>Toxicity to Daphnia (chronic)</b>			
No data available			
<b>Toxicity to algae (acute)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>

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EC50		2029	mg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
<b>2</b>	<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>	<b>64742-49-0</b>	<b>926-605-8</b>
EL50		26	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
Source		ECHA	
Evaluation		readily biodegradable	
2	butanone	78-93-3	201-159-0
Type		aerobic biodegradation	
Value		98	%
Duration		28	day(s)
Method		OECD 301 D	
Source		ECHA	
Evaluation		readily biodegradable	
3	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	64742-49-0	926-605-8
Type		aerobic biodegradation	
Value		98	%
Duration		28	day(s)
Method		OECD 301 F	
Source		ECHA	
Evaluation		readily degradable	

**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	ethyl-acetate	141-78-6	205-500-4
log Pow		6.8	
Reference temperature		25	°C
Source		ECHA	
2	butanone	78-93-3	201-159-0
log Pow		0.3	
Reference temperature		40	°C
Method		OECD 117	
Source		ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

**12.6 Other adverse effects**

No data available.

**12.7 Other information**

Other information
Do not discharge product unmonitored into the environment.
Do not discharge into the drains or waters and do not store on public depositories.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

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**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information**

**14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	ethyl-acetate butanone
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	ethyl-acetate butanone
EmS	F-E, S-E
Label	3

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Technical name	ethyl-acetate butanone
Label	3

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not relevant

**SECTION 15: Regulatory information**

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

**EU regulations**

<b>Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)</b>	
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.	
<b>REACH candidate list of substances of very high concern (SVHC) for authorisation</b>	
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.	
<b>Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES</b>	
The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
<b>Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances</b>	

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**Region:** GB

This product is subject to Part I of Annex I, risk category:	P5b
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Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)		
VOC content	<=900	g/l
VOC content	100	%

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

## SECTION 16: Other information

### Further information

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The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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