

**Trade name:** Fleckenwasser**Product no.:** 36999**Current version :** 1.0.0, issued: 07.09.2020**Replaced version:** -, issued: -**Region:** MT**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

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

Cleaner

**Uses advised against**

No data available.

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

Koch-Chemie GmbH

Einsteinstr. 42

D-59423 Unna

Telephone no. +49-2303-9 86 70-0

Fax no. +49-2303-9 86 70-26

**1.4 Emergency telephone number**

No data available.

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Asp. Tox. 1; H304

Flam. Liq. 2; H225

Skin Sens. 1; H317

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



GHS08



GHS09

**Signal word**

Danger

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

(R)-p-mentha-1,8-diene

citral

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H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.
P261	Avoid breathing vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

**2.3 Other hazards**

## PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

## vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be 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>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>			
	- 920-750-0 - 01-2119473851-33	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 Flam. Liq. 2; H225 STOT SE 3; H336 EUH066	< 100,00   	%-b.w.   
2	<b>propan-2-ol</b>			
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	< 2,50   	%-b.w.   
3	<b>(R)-p-mentha-1,8-diene</b>			
	5989-27-5 227-813-5 601-029-00-7 01-2119529223-47	Aquatic Acute 1; H400 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315	< 2,50   	%-b.w.   

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		Skin Sens. 1; H317 Aquatic Chronic 1; H410		
4	<b>acetone</b>			
	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	< 2,50	%-b.w.
5	<b>n-butyl acetate</b>			
	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	< 2,50	%-b.w.
6	<b>butanone</b>			
	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	< 2,50	%-b.w.
7	<b>citral</b>			
	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317	< 0,50	%-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**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration.

**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). In case of irritation consult an ophthalmologist.

**After ingestion**

Do not induce vomiting - aspiration hazard. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet; Dry chemical extinguisher; Carbon dioxide; Alcohol-resistant foam

**Unsuitable extinguishing media**

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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>); In case of fire: danger of pressure build up, which could result in container rupture.

## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. Run-off water from fire fighting must not be discharged into drains or enter surface water.

## 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. Keep away from ignition sources.

#### 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

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

#### General protective and hygiene measures

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

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

#### 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. Protect from heat and direct sunlight.

#### Incompatible products

Substances to be avoided, see section 10.

### 7.3 Specific end use(s)

No data available.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	acetone	67-64-1	200-662-2
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>			
Acetone			
	WEL long-term (8-hr TWA reference period)	1210	500
		mg/m <sup>3</sup>	ml/m <sup>3</sup>
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>			
Acetone			
	WEL long-term (8-hr TWA reference period)	1210	500
		mg/m <sup>3</sup>	ppm
<b>2000/39/EC</b>			
Acetone			
	WEL long-term (8-hr TWA reference period)	1210	500
		mg/m <sup>3</sup>	ppm
2	n-butyl acetate	123-86-4	204-658-1
<b>EU 2019/1831</b>			
n-Butyl acetate			
	WEL short-term (15 min reference period)	723	150
		mg/m <sup>3</sup>	ppm
	WEL long-term (8-hr TWA reference period)	241	50
		mg/m <sup>3</sup>	ppm
3	butanone	78-93-3	201-159-0
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>			
Butanone			
	WEL short-term (15 min reference period)	900	300
		mg/m <sup>3</sup>	ml/m <sup>3</sup>
	WEL long-term (8-hr TWA reference period)	600	200
		mg/m <sup>3</sup>	ml/m <sup>3</sup>
<b>Occupational Exposure Limit Values (Schedule V, Occupational Health and Safety Authority Act)</b>			
Butanone			
	WEL short-term (15 min reference period)	900	300
		mg/m <sup>3</sup>	ppm
	WEL long-term (8-hr TWA reference period)	600	200
		mg/m <sup>3</sup>	ppm
<b>2000/39/EC</b>			
Butanone			
	WEL short-term (15 min reference period)	900	300
		mg/m <sup>3</sup>	ppm
	WEL long-term (8-hr TWA reference period)	600	200
		mg/m <sup>3</sup>	ppm

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			-
	dermal	Long term (chronic)	systemic	773 mg/kg/day
	inhalative	Long term (chronic)	systemic	2035 mg/m <sup>3</sup>
2	propan-2-ol			67-63-0 200-661-7
	dermal	Long term (chronic)	systemic	888 mg/kg/day
	inhalative	Long term (chronic)	systemic	500 mg/m <sup>3</sup>
3	(R)-p-mentha-1,8-diene			5989-27-5 227-813-5
	dermal	Short term (acute)	local	222 µg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	33,3 mg/m <sup>3</sup>
4	acetone			67-64-1 200-662-2
	dermal	Long term (chronic)	systemic	186 mg/kg/day
	inhalative	Short term (acute)	local	2420 mg/m <sup>3</sup>

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	inhalative	Short term (acut)	systemic	1210	mg/m <sup>3</sup>
5	<b>n-butyl acetate</b>			<b>123-86-4</b> <b>204-658-1</b>	
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	dermal	Short term (acut)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	300	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	600	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	300	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	600	mg/m <sup>3</sup>
6	<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>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>			<b>-</b> <b>920-750-0</b>	
	oral	Long term (chronic)	systemic	699	mg/kg/day
	dermal	Long term (chronic)	systemic	699	mg/kg/day
	inhalative	Long term (chronic)	systemic	608	mg/m <sup>3</sup>
2	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m <sup>3</sup>
3	<b>(R)-p-mentha-1,8-diene</b>			<b>5989-27-5</b> <b>227-813-5</b>	
	oral	Long term (chronic)	systemic	4,76	mg/kg/day
	dermal	Short term (acut)	local	0,111	mg/cm <sup>2</sup>
	inhalative	Long term (chronic)	systemic	8,33	mg/m <sup>3</sup>
4	<b>acetone</b>			<b>67-64-1</b> <b>200-662-2</b>	
	oral	Long term (chronic)	systemic	62	mg/kg/day
	dermal	Long term (chronic)	systemic	62	mg/kg/day
	inhalative	Long term (chronic)	systemic	200	mg/m <sup>3</sup>
5	<b>n-butyl acetate</b>			<b>123-86-4</b> <b>204-658-1</b>	
	oral	Long term (chronic)	systemic	2	mg/kg/day
	oral	Short term (acut)	systemic	2	mg/kg/day
	dermal	Long term (chronic)	systemic	6	mg/kg/day
	dermal	Short term (acut)	systemic	6	mg/kg/day
	inhalative	Long term (chronic)	systemic	35,7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	300	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	35,7	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	300	mg/m <sup>3</sup>
6	<b>butanone</b>			<b>78-93-3</b> <b>201-159-0</b>	
	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>

**PNEC values**

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	<b>propan-2-ol</b>		<b>67-63-0</b> <b>200-661-7</b>

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	water	fresh water	140,9	mg/L
	water	Aqua intermittent	140,9	mg/L
	water	marine water	140,9	mg/L
	water	fresh water sediment	552	mg/L
	water	marine water sediment	552	mg/L
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning	-	160	mg/kg
	with reference to: food			
2	<b>(R)-p-mentha-1,8-diene</b>		<b>5989-27-5</b> <b>227-813-5</b>	
	water	fresh water	0,0054	mg/L
	water	marine water	0,00054	µg/L
	water	fresh water sediment	1,32	mg/kg dry weight
	water	marine water sediment	0,13	mg/kg dry weight
	soil	-	0,262	mg/kg dry weight
	sewage treatment plant	-	1,8	mg/L
	secondary poisoning	-	3,33	mg/kg food
3	<b>acetone</b>		<b>67-64-1</b> <b>200-662-2</b>	
	water	fresh water	10,6	mg/L
	water	marine water	1,06	mg/L
	water	Aqua intermittent	21	mg/L
	water	fresh water sediment	30,4	mg/kg
	water	marine water sediment	3,04	mg/kg
	soil	-	29,5	mg/kg
	sewage treatment plant	-	100	mg/L
4	<b>n-butyl acetate</b>		<b>123-86-4</b> <b>204-658-1</b>	
	water	fresh water	0,18	mg/L
	water	marine water	0,018	mg/L
	water	Aqua intermittent	0,36	mg/L
	water	fresh water sediment	0,981	mg/kg dry weight
	water	marine water sediment	0,0981	mg/kg dry weight
	soil	-	0,0903	mg/kg
	sewage treatment plant	-	35,6	mg/L
5	<b>butanone</b>		<b>78-93-3</b> <b>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**

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Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**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 aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Respiratory protection mask with combination filter.

Respirator A P2

**Eye / face protection**

Safety glasses with side protection shield (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 workstation 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	nitrile		
Material thickness	>	0,4	mm
Breakthrough time	>	480	mm

**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**

<b>Form/Colour</b>	
liquid	
colourless	
<b>Odour</b>	
solvent-like	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	106 - 140 °C
Reference substance	EC 920-750-0
Source	supplier
<b>Melting point / melting range</b>	
No data available	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Value	-5 °C
<b>Auto-ignition temperature</b>	
No data available	



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<b>Oxidising properties</b>			
not oxidizing			
<b>Explosive properties</b>			
This product is not explosive. In and after use danger of production of inflammable compounds.			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value		0,9	% vol
Reference substance	EC 920-750-0		
Source	supplier		
<b>Upper flammability or explosive limits</b>			
Value		7	% vol
Reference substance	EC 920-750-0		
Source	supplier		
<b>Vapour pressure</b>			
Value	<	110	kPa
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		0,74	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility in water</b>			
Comments	immiscible		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	propan-2-ol	67-63-0	200-661-7
log Pow		0,05	
Reference temperature		25	°C
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
log Pow		2,3	
Reference temperature		25	°C
Method	OECD 117		
Source	ECHA		
3	butanone	78-93-3	201-159-0
log Pow		0,3	
Reference temperature		40	°C
Method	OECD 117		
Source	ECHA		
<b>Viscosity</b>			
Value	<	7	mm <sup>2</sup> /s
Reference temperature		40	°C

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Type	kinematic
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**9.2 Other information**

Other information
No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

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

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources. Static discharges.

**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	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
LD50	>	5840	mg/kg bodyweight
Species	rat		
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
LD50		5840	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	acetone	67-64-1	200-662-2
LD50		5800	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
4	n-butyl acetate	123-86-4	204-658-1
LD50		10760	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
5	butanone	78-93-3	201-159-0
LD50		2054	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA / Read across		

Acute dermal toxicity
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1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
LD50	> 2800 - 3100		mg/kg bodyweight
Species	rat		
Source	ECHA		
2	acetone	67-64-1	200-662-2
LD50	> 15800		mg/kg bodyweight
Species	rabbit		
Source	ECHA		
3	n-butyl acetate	123-86-4	204-658-1
LD50	> 14112		mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
LC50	> 23,3		mg/l
Duration of exposure	4		h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
LC50	> 10000		ppmV
Duration of exposure	6		h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	acetone	67-64-1	200-662-2
LC50	76		mg/l
Duration of exposure	4		h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
2	propan-2-ol	67-63-0	200-661-7
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Duration of exposure	4		h
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

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<b>4</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
<b>5</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Duration of exposure	4		h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		
<b>Serious eye damage/irritation</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>920-750-0</b>
Species	rabbit		
Source	ECHA		
Evaluation	non-irritant		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		
<b>3</b>	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
<b>4</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
<b>5</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
<b>Respiratory or skin sensitisation</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>920-750-0</b>
Route of exposure	Skin		
Species	guinea pig		
Source	ECHA		
Evaluation	non-sensitizing		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		

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Source Evaluation	ECHA sensitizing
<b>4</b> butanone	<b>78-93-3</b> <b>201-159-0</b>
Route of exposure	Skin
Species	guinea pig
Method	OECD 406
Source	ECHA
Evaluation	non-sensitizing

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	-	<b>920-750-0</b>
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.		
<b>3</b>	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
Type of examination	Chromosome aberration test		
Species	Chinese Hamster Ovary (CHO-K1) cells		
Method	OECD 473		
Source	ECHA		
<b>4</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.		
<b>5</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
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.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	-	<b>920-750-0</b>
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.		
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Source Evaluation/classification	ECHA Based on available data, the classification criteria are not met.		
<b>3</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>

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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.

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Route of exposure		oral	
Duration of exposure		103	week/s
Species		rat	
Method		OECD 451	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	butanone	78-93-3	201-159-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
Route of exposure		inhalational	
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	propan-2-ol	67-63-0	200-661-7
Route of exposure		inhalational	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
Route of exposure		oral	
NOAEL		1650	mg/kg bw/d
Species		mouse	
Method		OECD 407	
Source		ECHA	
4	n-butyl acetate	123-86-4	204-658-1
Route of exposure		inhalational	
NOAEC		500	ppm
Duration of exposure		90	day(s)
Species		rat	
Method		EPA OTS 798.2450	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
5	butanone	78-93-3	201-159-0
Route of exposure		inhalational	
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard	
No data available	

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**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
LL50		3	10
Duration of exposure			96
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	ECHA		
2	propan-2-ol	67-63-0	200-661-7
LC50			9640
Duration of exposure			96
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
3	(R)-p-mentha-1,8-diene	5989-27-5	227-813-5
LC50			0,72
Duration of exposure			96
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
4	acetone	67-64-1	200-662-2
LC50			5540
Duration of exposure			96
Species	Oncorhynchus mykiss		
Source	ECHA		
5	n-butyl acetate	123-86-4	204-658-1
LC50			18
Duration of exposure			96
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
6	butanone	78-93-3	201-159-0
LC50			2993
Duration of exposure			96
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

<b>Toxicity to fish (chronic)</b>			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
NOELR			0,57
Duration of exposure			28
Species	Oncorhynchus mykiss		
Method	(Q)SAR		
Source	ECHA		

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	-	920-750-0
EL50		4,6	10
			mg/l

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Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
EC50	>	10000	mg/l
Duration of exposure		24	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>3</b>	<b>(R)-p-mentha-1,8-diene</b>	<b>5989-27-5</b>	<b>227-813-5</b>
EC50		0,36	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>4</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
EC50		8800	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Source	ECHA		
<b>5</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
EC50		44	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>6</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		

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	-	<b>920-750-0</b>
NOELR	1	-	1,6
Duration of exposure			21
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
<b>2</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
NOEC		23	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
with reference to	CAS 110-19-0		
Method	OECD 211		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	-	<b>920-750-0</b>
EL50	10	-	30
Duration of exposure			72
Species	Pseudokirchneriella subcapitata		



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Method	OECD 201
Source	ECHA
<b>2</b>	<b>butanone</b> <b>78-93-3</b> <b>201-159-0</b>
EC50	2029 mg/l
Duration of exposure	96 h
Species	Pseudokirchneriella subcapitata
Method	OECD 201
Source	ECHA

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>920-750-0</b>
NOELR		6,3	mg/l
Duration of exposure		3	day(s)
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
IC50		356	mg/l
Duration of exposure		40	h
Species	Tetrahymena pyriformis (Protozoa)		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	<b>-</b>	<b>920-750-0</b>
Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	readily biodegradable		
<b>2</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Type	BOD/COD		
Value		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
<b>3</b>	<b>acetone</b>	<b>67-64-1</b>	<b>200-662-2</b>
Type	aerobic biodegradation		
Value		90,9	%
Duration		28	day(s)
Method	OECD 301 B		
Source	ECHA		
Evaluation	readily biodegradable		
<b>4</b>	<b>n-butyl acetate</b>	<b>123-86-4</b>	<b>204-658-1</b>
Type	aerobic biodegradation		
Value		83	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
<b>5</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>

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Type	aerobic biodegradation
Value	98 %
Duration	28 day(s)
Method	OECD 301 D
Source	ECHA
Evaluation	readily biodegradable

Abiotic Degration			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
Type	Photolysis		
Half-life	3,3	day(s)	
Reference temperature	25	°C	
Source	ECHA		

### 12.3 Bioaccumulative potential

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	n-butyl acetate	123-86-4	204-658-1
BCF	15,3		
Method	Calculation model used (Q)SAR		
Source	ECHA		

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	propan-2-ol	67-63-0	200-661-7
log Pow	0,05		
Reference temperature	25 °C		
Source	ECHA		
2	n-butyl acetate	123-86-4	204-658-1
log Pow	2,3		
Reference temperature	25 °C		
Method	OECD 117		
Source	ECHA		
3	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	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

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Do not discharge into the drains or waters and do not store on public depositories.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

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	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Technical name	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol
EmS	F-E, S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	II
UN number	UN1993
Proper shipping name	Flammable liquid, n.o.s.
Technical name	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics propan-2-ol
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**

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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****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

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.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

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.

**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**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P5b
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If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.  
Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.  
The surfactants contained in this product comply with the DetVO 648/2004/EC.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****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)**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

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The safety data sheet describes products with a view to safety requirements.  
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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