

SCREEN WASH

Creation date 30. January 2019
Revision date Version 3.0

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

- 1.1. Product identifier**
Substance / mixture SCREEN WASH
Number mixture
R 34700
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use Concentrated windscreen wash, for summer.
Mixture uses advised against For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

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

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Eye Dam. 1, H318
Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation.

2.2. Label elements**Hazard pictogram****Signal word**

Danger

Hazardous substances

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts
2-aminoethanol

Hazard statements

H315 Causes skin irritation.

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H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a doctor.
 P501 Dispose of contents/container to in accordance with national regulations.

Supplemental information

EUH 208 Contains (R) -p-mentha-1,8-diene. May produce an allergic reaction.

2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. In case of greater leakage, it may be dangerous for surface and groundwater.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28-0000	ethylene glycol	<10	Acute Tox. 4, H302 STOT RE 2, H373	1
CAS: 68891-38-3 EC: 500-234-8 Registration number: 01-2119488639-16-0000	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	<10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
CAS: 68411-30-3 EC: 270-115-0 Registration number: 01-2119489428-22-0000	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	4,6-5,7	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Index: 603-030-00-8 CAS: 141-43-5 EC: 205-483-3 Registration number: 01-2119486455-28-0000	2-aminoethanol	<4,1	Acute Tox. 4, H302+H312+H332 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3, H335: C ≥ 5 %	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.	
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 Registration number: 01-2119457892-27-0000	caustic soda	<1,1	Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 % Skin Irrit. 2, H315: 0,5 % ≤ C < 2 %	1	
Index: 601-029-00-7 CAS: 5989-27-5 EC: 227-813-5 Registration number: 01-2119529223-47-0000	(R) -p-mentha-1,8-diene	0,6-0,8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		

Notes

1 Substance for which exposure limits of Community for working environment exist.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold.

Skin contact

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with water and provide 2-5 dL of water. Do not provide anything by mouth if the person is unconscious or if having cramps. If unconscious, place in recovery position and get medical attention immediately.

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

Inhalation

not available

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion

not available

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

Ingestion/eye contact: inform a doctor and show him information from this safety data sheet.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Accommodate extinguishing components to the location of fire. The mixture is non-flammable. Foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes. Provide sufficient ventilation. Keep unprotected persons away.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. In case of greater leakage, it may be dangerous for surface and groundwater. Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not inhale vapours. Observe valid legal regulations on safety and health protection. Ensure that eyewash stations and safety showers are close to the workstation location.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store together with food, drink and animal feed.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethylene glycol (CAS: 107-21-1)	OEL	8 hours	52 mg/m ³		EU limits
	OEL	8 hours	20 ppm		

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European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethylene glycol (CAS: 107-21-1)	OEL	Short-term	104 mg/m ³		EU limits
	OEL	Short-term	40 ppm		
2-aminoethanol (CAS: 141-43-5)	OEL	8 hours	2,5 mg/m ³		EU limits
	OEL	8 hours	1 ppm		
	OEL	Short-term	7,6 mg/m ³		
	OEL	Short-term	3 ppm		

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
ethylene glycol (CAS: 107-21-1)	WEL	8 hours	10 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Particulates only	GBR
	WEL	8 hours	20 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	8 hours	52 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	15 minutes	104 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	
	WEL	15 minutes	40 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., Vapour	

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
2-aminoethanol (CAS: 141-43-5)	WEL	8 hours	2,5 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	7,6 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	1 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	3 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
caustic soda (CAS: 1310-73-2)	WEL	15 minutes	2 mg/m ³		GBR

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DNEL

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

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	9.5 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	66.7 mg/m ³	Systemic chronic effects	
Consumers	Dermal	4.8 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	16.6 mg/m ³	Systemic chronic effects	
Consumers	Oral	4.8 mg/kg bw/day	Systemic chronic effects	

2-aminoethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	1 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	3.3 mg/m ³	Local chronic effects	
Consumers	Dermal	0.24 mg/kg bw/day	Systemic chronic effects	
Workers	Oral	3.75 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	2 mg/m ³	Local chronic effects	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	85 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	6 mg/m ³	Systemic chronic effects	
Consumers	Dermal	42.5 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	1.5 mg/m ³	Systemic chronic effects	
Consumers	Oral	0.425 mg/kg bw/day	Systemic chronic effects	

caustic soda

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	1 mg/m ³	Local chronic effects	
Consumers	Inhalation	1 mg/m ³	Local chronic effects	

ethylene glycol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Dermal	106 mg/kg bw/day	Systemic chronic effects	
Workers	Inhalation	35 mg/m ³	Local chronic effects	
Consumers	Dermal	53 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	7 mg/m ³	Local chronic effects	

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PNEC

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

Route of exposure	Value	Determining method
Freshwater environment	14 µg/l	
Freshwater sediment	3.85 mg/kg of dry substance of sediment	
Soil (agricultural)	0.763 mg/kg of dry substance of soil	
Microorganisms in wastewater treatment plants	1.8 mg/l	
Seawater	1.4 µg/l	
Sea sediments	0.385 mg/kg of dry substance of sediment	
Food chain	133 mg/kg of food	

2-aminoethanol

Route of exposure	Value	Determining method
Freshwater environment	0.085 mg/l	
Water (occasional leak)	0.028 mg/l	
Freshwater sediment	0.434 mg/kg of dry substance of sediment	
Soil (agricultural)	0.037 mg/kg of dry substance of soil	
Freshwater sediment	100 mg/l	
Seawater	0.009 mg/l	
Sea sediments	0.043 mg/l	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Route of exposure	Value	Determining method
Freshwater environment	0.268 mg/l	
Water (occasional leak)	0.017 mg/l	
Freshwater sediment	8.1 mg/kg of dry substance of sediment	
Soil (agricultural)	35 mg/kg of dry substance of soil	
Microorganisms in wastewater treatment plants	3.43 mg/l	
Seawater	0.027 mg/l	
Sea sediments	6.8 mg/kg of dry substance of sediment	

ethylene glycol

Route of exposure	Value	Determining method
Freshwater environment	10 mg/l	
Water (occasional leak)	10 mg/l	
Freshwater sediment	37 mg/kg of dry substance of sediment	
Soil (agricultural)	1.53 mg/kg of dry substance of soil	
Seawater	1 mg/l	

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ethylene glycol

Route of exposure	Value	Determining method
Sea sediments	3.7 mg/kg of dry substance of sediment	

8.2. Exposure controls

Follow the usual measures for health protection at work. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. After contact with skin, wash immediately with plenty of soap and water, treat with regenerative cream.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Protective gloves shall be replaced immediately when damaged.

Other protection: protective workwear.

Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter A/P.

Thermal hazard

Not available.

Environmental exposure controls

Avoid release to the environment. Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state liquid at 20°C
color yellow

Odour containing alcohol

Odour threshold data not available

pH data not available

Melting point/freezing point data not available

Initial boiling point and boiling range data not available

Flash point data not available

Evaporation rate data not available

Flammability (solid, gas) non-inflammable

Upper/lower flammability or explosive limits

flammability limits data not available

explosive limits data not available

Vapour pressure data not available

Vapour density data not available

Relative density data not available

Solubility(ies)

solubility in water soluble

solubility in fats data not available

Partition coefficient: n-octanol/water data not available

Auto-ignition temperature data not available

Decomposition temperature data not available

Viscosity data not available

Explosive properties The product does not have explosive properties.

Oxidising properties The product has no oxidizing properties.

9.2. Other information

Density 1.01 g/cm³ at 20 °C

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under normal conditions.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with acids.

10.4. Conditions to avoid

Protect against flames, sparks, overheating. Protect against strong acids and oxidizing agents.

10.5. Incompatible materials

Protect against strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

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

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 423	>2000 mg/kg bw		Rat	

2-aminoethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 401	1089 mg/kg bw		Rat	
Oral	LD ₅₀	OECD 401	1.19 ml/kg bw		Rat	
Oral	LD ₅₀	OECD 401	1.07 ml/kg bw		Rat	
Inhalation	LD ₅₀		>1.3 mg/l of air		Rat	
Dermal	LD ₅₀	OECD 402	≥2.46-≤2.83 ml/kg bw		Rabbit	
Dermal	LD ₅₀	OECD 402	2504 mg/kg bw		Rabbit	
Dermal	LD ₅₀	OECD 402	2881 mg/kg bw		Rabbit	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 401	>2000 mg/kg bw			
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀	OECD 401	1080 mg/kg bw		Rat	
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat	

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ethylene glycol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		7712 mg/kg		Rat	
Dermal	LD ₅₀		>3500 mg/kg		Mouse	
Inhalation	LC ₅₀		>2.5 mg/l		Rat	

Skin corrosion/irritation

Causes skin irritation.

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

Route of exposure	Result	Method	Time of exposure	Species
Skin	Not irritating	OECD 404		Rabbit

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Irritating	OECD 404		Rabbit

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Route of exposure	Result	Method	Time of exposure	Species
Skin	Irritating	OECD 404		Rabbit

ethylene glycol

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Not irritating			Rabbit

Serious eye damage/irritation

Causes serious eye damage.

2-aminoethanol

Route of exposure	Result	Method	Time of exposure	Species
Eye	Serious eye damage	OECD 405		Rabbit
Skin	Caustic	OECD 404		Rabbit

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure	Result	Method	Time of exposure	Species
Eye	Irritating	OECD 405		Rabbit

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Route of exposure	Result	Method	Time of exposure	Species
Eye	Serious eye damage	OECD 405		Rabbit

caustic soda

Route of exposure	Result	Method	Time of exposure	Species
Eye	Irritating	OECD 405		Rabbit
Skin	Irritating			Human

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ethylene glycol

Route of exposure	Result	Method	Time of exposure	Species
Eye	Not irritating			Rabbit

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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

Route of exposure	Result	Method	Time of exposure	Species	Sex
Skin	Sensitizing			Mouse	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure	Result	Method	Time of exposure	Species	Sex
Skin	Not sensitizing	OECD 406		Guinea-pig	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Route of exposure	Result	Method	Time of exposure	Species	Sex
Dermal	Not sensitizing	OECD 406		Guinea-pig	

ethylene glycol

Route of exposure	Result	Method	Time of exposure	Species	Sex
Dermal	Not sensitizing			Guinea-pig	

Germ cell mutagenicity

Based on available data the classification criteria are not met.

2-aminoethanol

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 474			Mouse	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 475			Mouse	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative	OECD 474			Mouse	

ethylene glycol

Result	Method	Time of exposure	Specific target organ	Species	Sex
Negative				Rat	

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Carcinogenicity

Based on available data the classification criteria are not met.

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

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL	OECD 451	≥75-≤150 mg/kg bw/day		Rat	
Oral	NOAEL	OECD 451	≥300-≤600 mg/kg bw/day		Rat	
Oral	NOAEL	OECD 451	≥250-≤500 mg/kg bw/day		Mouse	
Oral	NOAEL	OECD 451	≥500-≤1000 mg/kg bw/day		Mouse	

ethylene glycol

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL		1500 mg/kg bw/day		Mouse	
Oral	NOAEL		1000 mg/kg		Rat	

Reproductive toxicity

Based on available data the classification criteria are not met.

2-aminoethanol

Parameter	Method	Value	Result	Species	Sex
NOAEL	OECD 416	300 mg/kg bw/day		Rat	
NOAEL	OECD 416	1000 mg/kg bw/day		Rat	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Parameter	Method	Value	Result	Species	Sex
NOAEL	OECD 416	300 mg/kg bw/day		Rat	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Parameter	Method	Value	Result	Species	Sex
NOAEL		350 mg/kg bw/day		Rat	

ethylene glycol

Parameter	Method	Value	Result	Species	Sex
NOAEL		>1000 mg/kg bw/day		Rat	
NOEL		1000 mg/kg bw/day		Mouse	

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Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

2-aminoethanol

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Inhalation				Irritating		

ethylene glycol

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Dermal	NOAEL	OECD 410	2200-4400 mg/kg bw/day		Dog	

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

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

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL	OECD 407	825 mg/kg bw/day		Rat	
Oral	LOAEL	OECD 407	1650 mg/kg bw/day		Rat	
Oral	NOAEL	OECD 407	3300 mg/kg bw/day		Rat	

2-aminoethanol

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL	OECD 416	300 mg/kg bw/day		Rat	
Inhalation	NOAEC	OECD 412	10 mg/m ³ of air		Rat	
Inhalation	NOEC	OECD 412	150 mg/m ³ of air		Rat	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Route of exposure	Parameter	Method	Value	Result	Species	Sex
Oral	NOAEL	OECD 408	>225 mg/kg bw/day		Rat	

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information
12.1. Toxicity

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Acute toxicity

Harmful to aquatic life with long lasting effects.

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

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀	OECD 203	0.72 mg/l		Fishes (Pimephales promelas)	
EC ₅₀	OECD 203	0.688 mg/l		Fishes (Pimephales promelas)	
LC ₅₀	OECD 202	0.577 mg/l		Daphnia (Daphnia magna)	
EC ₅₀	OECD 202	0.421 mg/l		Daphnia (Daphnia magna)	
EC ₅₀		0.32 mg/l		Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		0.214 mg/l		Algae (Pseudokirchneriella subcapitata)	

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀	OECD 203	7.1 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀	OECD 202	7.2 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	27 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		1.67 mg/l	96 hour	Fishes (Lepomis macrochirus)	
EC ₅₀	OECD 202	2.9 mg/l	48 hour	Daphnia (Daphnia magna)	
EC ₅₀	OECD 202	6.4 mg/l	24 hour	Daphnia (Daphnia magna)	
EC ₅₀		29 mg/l	96 hour	Algae (Pseudokirchneriella subcapitata)	

caustic soda

Parameter	Method	Value	Time of exposure	Species	Environment
EC ₅₀		40.4 mg/l	48 hour	Invertebrates (Ceriodaphnia sp.)	

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ethylene glycol

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		72860 mg/l	96 hour	Fishes (Pimephales promelas)	
EC ₅₀	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	
NOEC	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

Not available.

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

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

16 10 03 aqueous concentrates containing dangerous substances

Packaging waste type code

15 01 02 plastic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information**14.1. UN number**

Not subject to ADR.

14.2. UN proper shipping name

not available

14.3. Transport hazard class(es)

not available

14.4. Packing group

not available

14.5. Environmental hazards

not available

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not available**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container to in accordance with national regulations.

A list of additional standard phrases used in the safety data sheet

EUH 208 Contains (R) -p-mentha-1,8-diene. May produce an allergic reaction.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road
BCF Bioconcentration Factor
CAS Chemical Abstracts Service
CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL Derived no-effect level
EC Identification code for each substance listed in EINECS

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EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

2, 3, 8, 9, 11, 12, 15, 16

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.