

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Blitze Blanko (9001S4)

Revision date: 28.03.2024

Product code: 9001S4

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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UFI: YR82-70H9-D00E-WCK1

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

Cleaning agent.

Uses advised against

Do not use in cavities.

1.3. Details of the supplier of the safety data sheet

Company name:	WOCKEN Industriepartner GmbH & Co.KG	
Street:	Industriestr. 14	
Place:	D-49716 Meppen	
Telephone:	+49/(0)5931/801-0	Telefax: +49/(0)5931/801-90
E-mail:	info@wocken.com	
Contact person:	Joachim Wolbers	Telephone: +49/(0)5931/801-20
E-mail:	jwolbers@wocken.com	
Internet:	www.wocken.com	
Responsible Department:	Sicherheitsdatenblätter, REACH	

1.4. Emergency telephone number:Information Center against Poisoning (GIZ) Bonn, Phone: 0049/228/19240
(24-hour emergency call)**Further Information**

Restricted to professional users. Follow the instructions for use on the label. To avoid risks to man and the environment, comply with the instructions for use.

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

Aerosol 1; H222-H229

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.

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P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to according to local / regional / national / international regulations for disposal.

Additional advice on labelling

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

Labelling of packages where the contents do not exceed 125 ml**Signal word:** Danger**Pictograms:****Hazard statements**

H222-H229

Precautionary statements

P210-P211-P251-P410+P412

2.3. Other hazards

Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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

Mixture of substances listed below with nonhazardous additions:

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64-17-5	ethanol, ethyl alcohol			10 - < 15 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
68476-40-4	Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien (EINECS 203-450-8))			5 - < 10 %
	270-681-9	649-199-00-1	01-2119486557-22	
	Flam. Gas 1, Liquefied gas; H220 H280			
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether			< 1 %
	203-905-0		01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
68439-57-6	Olefinsulfonat, Natriumsalz (40%ig)			< 1 %
	270-407-8		01-2119513401-57	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)			< 1 %
	205-281-5		01-2119527780-39	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H332 H315 H318			
1336-21-6	Ammonia solution 25 %			< 0.1 %
	215-647-6	007-001-01-2		
	Skin Corr. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 2; H314 H335 H400 H411			
5392-40-5	Citral			< 0.1 %
	226-394-6	605-019-00-3	01-2119462829-23	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64-17-5	200-578-6	ethanol, ethyl alcohol	10 - < 15 %
		inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg Eye Irrit. 2; H319: >= 50 - 100	
111-76-2	203-905-0	2-butoxyethanol; ethylene glycol monobutyl ether	< 1 %
		inhalation: LC50 = > 3,1 mg/l (vapours); inhalation: LC50 = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1746 mg/kg	
68439-57-6	270-407-8	Olefinsulfonat, Natriumsalz (40%ig)	< 1 %
		inhalation: LC50 = >52 mg/l (dusts or mists); dermal: LD50 = 6300 mg/kg; oral: LD50 = >2000 mg/kg	
137-16-6	205-281-5	sodium N-lauroylsarcosinate 30% solution (Na-salt)	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 1 - < 30	
1336-21-6	215-647-6	Ammonia solution 25 %	< 0.1 %
		STOT SE 3; H335: >= 5 - 100 Aquatic Acute 1; H400: M=1	
5392-40-5	226-394-6	Citral	< 0.1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = ca. 6800 mg/kg	

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % aliphatic hydrocarbons, < 5 % anionic surfactants, perfumes (Citral).

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SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! In all cases of doubt, or when symptoms persist, seek medical advice. Remove contaminated, saturated clothing immediately. Remove persons to safety. Keep away from unprotected people. Keep upwind. Ventilate affected area.

After inhalation

Provide fresh air. Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. Seek medical attention if problems persist.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eyelids open. Protect the injured eye. Rinse also under the lid of the eyelid. Consult an ophthalmologist.

After ingestion

No usual way of intake because of aerosol.
The product is a foam aerosol. Danger of suffocation due to foaming.

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

The following symptoms may occur: difficulties of breathing. Headache. Dizziness. Dizziness. Coughing. Nausea.

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

First Aid, decontamination, treatment of symptoms.

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

Carbon dioxide (CO₂). Dry extinguishing powder. Foam. Water spray jet.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

In case of fire and/or explosion do not breathe fumes. Formation of toxic gases possible during heating and/or in case of fire.

In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products. Sulfur oxides (SO_x).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

Additional information

Contaminated fire-fighting water must be collected separately. Co-ordinate fire-fighting measures to the fire surroundings. Dispose of fire residues and extinguishing water in accordance with official regulations.

Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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General advice

Remove all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

For non-emergency personnel

Remove persons to safety. Keep away from unprotected people. Keep upwind.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up**For containment**

Cover drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

Other information

Ventilate affected area. Use non-sparking tools. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13.

Safe handling: see section 7. Personal protection equipment: see section 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Use only in well-ventilated areas. Do not use in cavities. Keep away from sources of ignition - No smoking.

Flammable vapours can accumulate in head space of closed systems.

Avoid contact with eyes. Do not breathe gas/vapour/aerosol.

Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Remove all sources of ignition. Do not spray on naked flames or any incandescent material. Heating causes rise in pressure with risk of bursting. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Advice on general occupational hygiene

Work in well-ventilated zones or use proper respiratory protection. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Restore grease film of the skin after cleansing by using a fat cream to prevent dermatitis. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

Take off contaminated clothing and wash it before reuse.

Further information on handling

Heating causes rise in pressure with risk of bursting.

After use replace the closing cap immediately. Keep locked up and out of reach of children.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

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

The official regulations for the storage of compressed gas packages must be observed. Observe the storage regulations of the TRGS 300 for flammable aerosols.

Hints on joint storage

Do not store together with: Food and feedingstuffs, Water.

Further information on storage conditions

Protect against: heat. UV-radiation/sunlight. frost. moisture.

7.3. Specific end use(s)

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Cleaning agent. Observe instructions for use. Observe technical data sheet.

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

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, long-term		inhalation	systemic	950 mg/m ³
Worker DNEL, acute		inhalation	local	1900 mg/m ³
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	114 mg/m ³
Consumer DNEL, acute		inhalation	local	950 mg/m ³
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
68476-40-4	Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien (EINECS 203-450-8))			
Worker DNEL, long-term		dermal	systemic	23,4 mg/kg bw/day
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Worker DNEL, acute		inhalation	systemic	663 mg/m ³
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	49 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Consumer DNEL, acute		inhalation	local	123 mg/m ³
Consumer DNEL, long-term		dermal	systemic	38 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	44,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	13,4 mg/kg bw/day
68439-57-6	Olefinulfonat, Natriumsalz (40%ig)			
Worker DNEL, long-term		dermal	systemic	2158,33 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	152,22 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1295 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	45,04 mg/m ³
Consumer DNEL, long-term		oral	systemic	12,95 mg/kg bw/day
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)			
Worker DNEL, long-term		inhalation	systemic	70,53 mg/m ³
Worker DNEL, long-term		dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	17,39 mg/m ³
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day
1336-21-6	Ammonia solution 25 %			
Worker DNEL, long-term		inhalation	systemic	47,6 mg/m ³

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Worker DNEL, acute	inhalation	systemic	47,6 mg/m ³
Worker DNEL, long-term	inhalation	local	14 mg/m ³
Worker DNEL, acute	inhalation	local	36 mg/m ³
Worker DNEL, long-term	dermal	systemic	6,8 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	6,8 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	23,8 mg/m ³
Consumer DNEL, acute	inhalation	systemic	23,8 mg/m ³
Consumer DNEL, long-term	inhalation	local	2,8 mg/m ³
Consumer DNEL, acute	inhalation	local	7,2 mg/m ³
Consumer DNEL, long-term	dermal	systemic	6,8 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	6,8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	6,8 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	6,8 mg/kg bw/day
5392-40-5	Citral		
Worker DNEL, long-term	inhalation	systemic	9 mg/m ³
Worker DNEL, long-term	dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,7 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,6 mg/kg bw/day

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater (intermittent releases)		2,75 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		380 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether	
Freshwater		8,8 mg/l
Freshwater (intermittent releases)		26,4 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Secondary poisoning		20 mg/kg
Micro-organisms in sewage treatment plants (STP)		463 mg/l
Soil		2,33 mg/kg
68439-57-6	Olefin sulfonat, Natriumsalz (40%ig)	
Freshwater		0,042 mg/l
Marine water		0,0042 mg/l
Freshwater sediment		2,025 mg/kg
Marine sediment		0,2025 mg/kg
Micro-organisms in sewage treatment plants (STP)		4 mg/l
Soil		0,0061 mg/kg
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)	
Freshwater		0,009 mg/l
Freshwater (intermittent releases)		0,089 mg/l
Marine water		0,001 mg/l
Marine water (intermittent releases)		0,00891 mg/l
Freshwater sediment		0,064 mg/kg
Marine sediment		0,006 mg/kg
Micro-organisms in sewage treatment plants (STP)		3 mg/l
Soil		0,008 mg/kg
1336-21-6	Ammonia solution 25 %	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,008 mg/l
Marine water		0,001 mg/l
Soil		0,022 mg/kg
5392-40-5	Citral	

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Freshwater	0,007 mg/l
Freshwater (intermittent releases)	0,068 mg/l
Marine water	0,001 mg/l
Freshwater sediment	0,125 mg/kg
Marine sediment	0,013 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,6 mg/l
Soil	0,021 mg/kg

Additional advice on limit values

The lists valid during the making were used as basis.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Provide earthing of containers, equipment, pumps and ventilation facilities. Have eye showers and safety shower ready.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. EN 166

Hand protection

Tested protective gloves are to be worn: EN ISO 374

The most suitable glove should be chosen in consultation with the glove supplier / manufacturer who can provide information on the breakthrough time of the glove material.

Recommended material: NBR (Nitrile rubber).

Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Skin protection

Protective clothing: Body protection must be selected depending on the activity and possible impact. EN 13034/6

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus).

Thermal hazards

Extremely flammable aerosol. Pressurized container: May burst if heated.

Environmental exposure controls

Leakage into the environment must be prevented. Do not allow uncontrolled leakage of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	whitish -	
Odour:	like: lemon.	
Odour threshold:	not determined	
Melting point/freezing point:		Not applicable, aerosol

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Boiling point or initial boiling point and boiling range:	- 42 °C
Flammability:	not determined
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	15 vol. %
Flash point:	< 0 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not applicable
pH-Value (at 20 °C):	10 - 11
Viscosity / kinematic:	not applicable
Water solubility:	completely miscible
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not applicable
Vapour pressure:	not applicable
Density (at 20 °C):	0,92 g/cm ³
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

not Explosive.

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature

Solid:

not determined

Gas:

not determined

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:

not determined

Viscosity / dynamic:

not applicable

Further Information

Technical specifications (Aerosol): Internal pressure (20 ° C) = 0,40 MPa; Internal pressure (50 ° C) = 0,75 MPa
aerosol container: nominal volume = 400 ml; void = 520 ml; Test pressure = 1,5 MPa

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

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

10.4. Conditions to avoid

heat. UV-radiation/sunlight. frost. moisture.

In case of exceeding the storage temperature: >50 °C Danger of bursting container. Ignition hazard.

Remove all sources of ignition. Protect from moisture.

10.5. Incompatible materials

No data available

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10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.
 In case of fire may be liberated: carbon monoxide (CO). Carbon dioxide (CO₂). Organic cracking products.
 Sulfur oxides (SO_x).

Further information

In case of exceeding the storage temperature: >50 °C Danger of bursting container. Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming.

SECTION 11: Toxicological information
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicokinetics, metabolism and distribution

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

Acute toxicity

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

ATE_{mix} calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 mg/kg	6200	Rat	IUCLID
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether				
	oral	LD50 mg/kg	1746	Rat (Rattus).	MSDS
	dermal	LD50 mg/kg	> 2000	Guinea pig	SDS
	inhalation (4 h) vapour	LC50 mg/l	> 3,1	ATE	MSDS
	inhalation (4 h) dust/mist	LC50	1,5 mg/l	ATE	MSDS
68439-57-6	Olefinsulfonat, Natriumsalz (40%ig)				
	oral	LD50 mg/kg	>2000	Ratte	OECD 401
	dermal	LD50 mg/kg	6300	Kaninchen	OECD 402
	inhalation dust/mist	LC50	>52 mg/l	Ratte	OECD 403
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)				
	oral	LD50 mg/kg	> 5000	Rat	Study report (1987) OECD Guideline 401
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
5392-40-5	Citral				
	oral	LD50 mg/kg	ca. 6800	Rat	Study report (1978) Method: BASF-test according to internal
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1978) internal BASF-Test: single dose group ex

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Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

May be fatal if swallowed and enters airways. Danger of suffocation due to foaming.

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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

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

Leakage into the environment must be prevented.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna	IUCLID	
68476-40-4	Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien (EINECS 203-450-8))					
	Acute fish toxicity	LC50 49,47 mg/l	96 h	Fish, no other information	United States Environmental Protection A	The Ecosar class program has been develo
	Acute algae toxicity	ErC50 12,32 mg/l	96 h	algae	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 69,43 mg/l	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200	Calculation using ECOSAR Program v1.00.
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1474 mg/l	96 h	Oncorhynchus mykiss	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 203
	Acute algae toxicity	ErC50 1840 mg/l	72 h	Pseudokirchneriella subcapitata	MSDS	OECD 201
	Acute crustacea toxicity	EC50 1550 mg/l	48 h	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 202
	Fish toxicity	NOEC > 100 mg/l	21 d	Danio rerio	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 204
	Algae toxicity	NOEC 88 mg/l	3 d	Pseudokirchneriella subcapitata (green algae)	ECHA	OECD 201
	Crustacea toxicity	NOEC 100 mg/l	21 d	Daphnia magna	Toxicol Mech Meth 12, 255-63 (2002)	OECD Guideline 211
	Acute bacteria toxicity	EC50 700 mg/l ()		Pseudomonas putida	MSDS	DIN 38412
68439-57-6	Olefinsulfonat, Natriumsalz (40%ig)					
	Acute fish toxicity	LC50 4,2 mg/l	96 h	Danio Rerio		OECD 203
	Acute algae toxicity	ErC50 5,2 mg/l	72 h	Kieselalge		OECD 201
	Acute crustacea toxicity	EC50 4,53 mg/l	48 h	ceriodaphnia spec.		OECD 202
	Acute bacteria toxicity	EC50 230 mg/l ()				OECD 209
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)					
	Acute fish toxicity	LC50 107 mg/l	96 h	Danio rerio	Study report (2004)	OECD Guideline 203
	Acute algae toxicity	ErC50 79 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50 29,7 mg/l	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	Study report (2005)	OECD Guideline 209
1336-21-6	Ammonia solution 25 %					

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	Acute fish toxicity	LC50 mg/l	> 0,486	96 h	Oncorhynchus mykiss	Calamari et al, 1981	
	Fish toxicity	NOEC	1,2 mg/l	61 d	Oncorhynchus gorbuscha	ECHA	
5392-40-5	Citral						
	Acute fish toxicity	LC50 mg/l	6,78	96 h	Leuciscus idus	Study report (1989)	other: German standard DIN 38412, part L
	Acute algae toxicity	ErC50 mg/l	103,8	72 h	Desmodesmus subspicatus	Study report (1989)	other: DIN 38412 L9
	Acute crustacea toxicity	EC50	6,8 mg/l	48 h	Daphnia magna	Study report (1988)	other: Directive 79/831 EWG, C2 annex V
	Acute bacteria toxicity	EC50 mg/l ()	ca. 160	0,5 h	activated sludge, domestic	Study report (1994)	OECD Guideline 209

12.2. Persistence and degradability

No data available

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether				
	OECD 301B		90,4 %	28	study report (1998)
	Readily biodegradable (according to OECD criteria).				
68439-57-6	Olefinsulfonat, Natriumsalz (40%ig)				
	OECD 301 B		80%	28	
	Leicht biologisch abbaubar				
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)				
	ISO 14593 (CO2 headspace test)		82 %	28	study report 2004

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
68476-40-4	Hydrocarbons, C3-4; Petroleum gas (Nota K, <0,1% 1,3-Butadien (EINECS 203-450-8))	1,09
111-76-2	2-butoxyethanol; ethylene glycol monobutyl ether	0,81
68439-57-6	Olefinsulfonat, Natriumsalz (40%ig)	<=4
137-16-6	sodium N-lauroylsarcosinate 30% solution (Na-salt)	0,37
1336-21-6	Ammonia solution 25 %	-1,38
5392-40-5	Citral	2,76

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

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Further information

If used correctly, do not get undiluted into the wastewater.
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
slightly hazardous to water (WGK 1)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. The official regulations for the storage of compressed gas packages must be observed.
Return cans that are not completely empty to the collection point for household chemicals.
Only take completely empty aerosol cans to the recycling collection.

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Completely emptied packages can be recycled. Recycle sales packaging via DSD (Duales System Deutschland).

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1

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Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Marine pollutant: Nein
 Special Provisions: 63, 190, 277, 327, 344, 381,959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1



Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning

14.7. Maritime transport in bulk according to IMO instruments

No data available

Other applicable information

Transport as "limited quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

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

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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 24 % (220,5 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information

REACH Regulation (EC) No 1907/2006, as last amended by Commission Regulation (EU) 2022/586

CLP Regulation (EC) No 1272/2008, as last amended by Regulation (EU) 2021/1962

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Flam. Gas: Flammable gases

Aerosol: Aerosol

Liquefied gas

Flam. Liq: Flammable liquid

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße) IMDG: International Maritime Code for Dangerous Goods (Internationaler Seeschiffahrtscode für gefährliche Güter) IATA:

International Air Transport Association (Internationaler Luftverkehrsverband) GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien EINECS: Europäisches Verzeichnis der auf dem

Markt vorhandenen chemischen Stoffe ELINCS: European List of Notified Chemical Substances CAS:

Chemical Abstracts Service LC50: Tödliche Konzentration, 50% LD50: Tödliche Dosis, 50%

Key literature references and sources for data

Information from our suppliers as well as data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used for the preparation of this safety data sheet.

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

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

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H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. This information is intended to give you indications for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	, Industrial spraying, Non industrial spraying	-	3, 22	35	7, 11	-	-	-	Aerosol

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)