

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Nautik - marine coat

Revision date: 29.10.2019

Product code:

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

1.1. Product identifier

Nautik - marine coat

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

Use of the substance/mixture

Coatings. Professional use.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	carparts GmbH	
Street:	Vietorstraße 87	
Place:	D-51103 Köln	
Telephone:	+49 (0)221 28 58 58 -58	Telefax: +49 (0)221 28 58 58 -99
e-mail:	info@carparts-koeln.de	
Responsible Department:	info@carparts-koeln.de	

1.4. Emergency telephone number:

+49 (0)221 28 58 58 -58 (9:00-17:00 Mo-Fr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Reproductive toxicity: Repr. 1B

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Flammable liquid and vapour.

Harmful if swallowed.

Harmful if inhaled.

Causes skin irritation.

Causes serious eye damage.

May damage fertility. May damage the unborn child.

May cause respiratory irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

tetraethyl silicate; ethyl silicate

2-methoxyethanol; ethylene glycol monomethyl ether

2-methylpropan-1-ol; iso-butanol

2-methoxypropyl acetate

Signal word: Danger

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Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor.
P403+P235	Store in a well-ventilated place. Keep cool.

Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

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

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII:
Decamethylcyclopentasiloxane (CAS 541-02-06)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
78-10-4	tetraethyl silicate; ethyl silicate			20 - 50 %
	201-083-8	014-005-00-0	01-2119496195-28	
	Flam. Liq. 3, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H226 H332 H319 H335			
109-86-4	2-methoxyethanol; ethylene glycol monomethyl ether			10 - 20 %
	203-713-7	603-011-00-4		
	Flam. Liq. 3, Repr. 1B, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H226 H360FD H332 H312 H302			
541-02-6	Decamethylcyclopentasiloxane			5 - 10 %
	208-764-9			
78-83-1	2-methylpropan-1-ol; iso-butanol			1 - 5 %
	201-148-0	603-108-00-1		
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H315 H318 H335 H336			

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1330-20-7	xylene			1 - 5 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			
123-86-4	n-butyl acetate			1 - 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
67-56-1	methanol			0,1 - 1 %
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370			
5593-70-4	titanium tetrabutanolate			0,1 - 1 %
	227-006-8		01-2119967423-33	
	Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, STOT SE 3; H226 H315 H318 H335 H336			
70657-70-4	2-methoxypropyl acetate			0,1 - 1 %
	274-724-2	607-251-00-0		
	Flam. Liq. 3, Repr. 1B, STOT SE 3; H226 H360D H335			

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

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: 2-methoxyethanol; ethylene glycol monomethyl ether (CAS: 109-86-4) Toxic for reproduction;
Decamethylcyclopentasiloxane (CAS:541-02-6) Results of PBT and vPvB assessment

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam.
In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Further information on handling

General protection and hygiene measures: See section 8.

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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. Protect against direct sunlight.
- Ensure adequate ventilation of the storage area.
- Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

- Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

- Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
- Protect against: UV-radiation/sunlight. heat. Humidity frost.
- storage temperature: 15-25°C

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
109-86-4	2-Methoxyethanol	1	3		TWA (8 h)	WEL
78-83-1	2-Methylpropan-1-ol	50	154		TWA (8 h)	WEL
		75	231		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
78-10-4	Tetraethyl orthosilicate	5	44		TWA (8 h)	EU
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-83-1	2-methylpropan-1-ol; iso-butanol			
Consumer DNEL, long-term		inhalation	local	55 mg/m ³

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Worker DNEL, long-term	inhalation	local	310 mg/m ³
123-86-4	n-butyl acetate		
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day
Worker DNEL, acute	inhalation	local	600 mg/m ³
Worker DNEL, acute	inhalation	systemic	600 mg/m ³
Worker DNEL, long-term	inhalation	local	300 mg/m ³
Worker DNEL, long-term	inhalation	systemic	300 mg/m ³
Consumer DNEL, acute	inhalation	local	300 mg/m ³
Consumer DNEL, acute	inhalation	systemic	300 mg/m ³
Consumer DNEL, long-term	inhalation	local	35,7 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	35,7 mg/m ³
67-56-1	methanol		
Worker DNEL, long-term	inhalation	systemic	260 mg/m ³
Worker DNEL, acute	inhalation	systemic	260 mg/m ³
Worker DNEL, long-term	inhalation	local	260 mg/m ³
Worker DNEL, acute	inhalation	local	260 mg/m ³
Worker DNEL, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	50 mg/m ³
Consumer DNEL, acute	inhalation	systemic	50 mg/m ³
Consumer DNEL, long-term	inhalation	local	50 mg/m ³
Consumer DNEL, acute	inhalation	local	50 mg/m ³
Consumer DNEL, long-term	dermal	systemic	8 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	8 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	8 mg/kg bw/day
5593-70-4	titanium tetrabutanolat		
Consumer DNEL, long-term	oral	systemic	3,75 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	37,5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	127 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	38 mg/m ³

PNEC values

CAS No	Substance	Value
78-83-1	2-methylpropan-1-ol; iso-butanol	

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Freshwater	0,4 mg/l
Freshwater (intermittent releases)	11 mg/l
Marine water	0,04 mg/l
Freshwater sediment	1,56 mg/kg
Marine sediment	0,156 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,076 mg/kg
123-86-4	n-butyl acetate
Freshwater	0,18 mg/l
Freshwater (intermittent releases)	0,36 mg/l
Marine water	0,018 mg/l
Freshwater sediment	0,981 mg/kg
Marine sediment	0,098 mg/kg
Micro-organisms in sewage treatment plants (STP)	35,6 mg/l
Soil	0,09 mg/kg
67-56-1	methanol
Freshwater	20,8 mg/l
Freshwater (intermittent releases)	1540 mg/l
Marine water	2,08 mg/l
Freshwater sediment	77 mg/kg
Marine sediment	7,7 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	100 mg/kg
5593-70-4	titanium tetrabutanolat
Freshwater	0,08 mg/l
Freshwater (intermittent releases)	2,25 mg/l
Marine water	0,008 mg/l
Marine water (intermittent releases)	2,25 mg/l
Freshwater sediment	0,0687 mg/kg
Marine sediment	0,0069 mg/kg
Micro-organisms in sewage treatment plants (STP)	65 mg/l
Soil	0,0168 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Protective and hygiene measures

The usual precautions for handling chemicals should be considered.

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Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (DIN EN 374)

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time \geq 480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

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.

Skin protection

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

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

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

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

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid.	
Colour:	not determined	
Odour:	characteristic	
pH-Value:		not determined

Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	not determined
Flash point:	>35-55 °C

Explosive properties

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

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

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Decomposition temperature: not determined

Oxidizing properties

none.

Vapour pressure:
(at 20 °C) not determined

Density: not determined

Water solubility: miscible.

Solubility in other solvents

not determined

Viscosity / dynamic:
(at 40 °C) not determined

Viscosity / kinematic:
(at 20 °C) not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

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

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

Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition products

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

The product has not been tested.

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ATEmix calculated

ATE (oral) 2000,0 mg/kg; ATE (inhalation vapour) 13,98 mg/l; ATE (inhalation aerosol) 1,923 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-10-4	tetraethyl silicate; ethyl silicate				
	oral	LD50 >2500 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 5880 mg/kg	Rabbit	GESTIS	
	inhalation vapour	ATE 11 mg/l			
	inhalation (4 h) aerosol	LC50 >16,8 mg/l	Rat	ECHA Dossier	
109-86-4	2-methoxyethanol; ethylene glycol monomethyl ether				
	oral	ATE 500 mg/kg			
	dermal	LD50 1280 mg/kg	Rabbit		
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
541-02-6	Decamethylcyclopentasiloxane				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 7,3 - 10,32 mg/l	Rat	ECHA Dossier	
78-83-1	2-methylpropan-1-ol; iso-butanol				
	oral	LD50 3350 mg/kg	Rat	Study report (1993)	EPA OTS 798.1175
	dermal	LD50 2460 mg/kg	Rabbit	Study report (1993)	EPA OTS 798.1100
	inhalation (4 h) vapour	LC50 ca. 24,6 mg/l	Rat	AMA Arch. Ind. Hyg. Occ. Med. 10: 61-68	Rats were exposed to 8000 ppm of the tes
1330-20-7	xylene				
	oral	LD50 (3523) mg/kg	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 (12126) mg/kg	Rabbit	Publication (1962)	Single dermal dose under occlusion follo
	inhalation (4 h) vapour	LC50 (6700) mg/l	Rat	Toxicol Appl Pharmacol 33:543-558. (1975)	EU Method B.2
	inhalation aerosol	ATE 1,5 mg/l			
123-86-4	n-butyl acetate				
	oral	LD50 14130 mg/kg	Rat	Publication (1954)	acute oral toxicity test

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	dermal	LD50 mg/kg	>5000	Rat.	ECHA Dossier	
	inhalation (4 h) vapour	LC50 mg/l	(> 6,6)	Rat	Study report (1988)	OECD Guideline 403
67-56-1	methanol					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	3 mg/l			
	inhalation aerosol	ATE	0,5 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. May damage the unborn child. (2-methoxyethanol; ethylene glycol monomethyl ether)

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

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

STOT-single exposure

May cause respiratory irritation. (tetraethyl silicate; ethyl silicate)

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.

Specific effects in experiment on an animal

No data available.

Further information

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting. Nausea.

Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
78-10-4	tetraethyl silicate; ethyl silicate					
	Acute fish toxicity	LC50 mg/l	>245	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchnerella subcapitata	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	(>75)	48 h	Daphnia magna	ECHA Dossier
541-02-6	Decamethylcyclopentasiloxane					

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	Acute fish toxicity	LC50 mg/l	> 16	96 h	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	> 12		Pseudokirchneriella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	> 2,9	48 h	Daphnia magna	ECHA Dossier	
	Fish toxicity	NOEC	16 mg/l	14 d	Oncorhynchus mykiss (Rainbow trout)	ECHA Dossier	
	Algae toxicity	NOEC mg/l	> 12	4 d	Pseudokirchneriella subcapitata	ECHA Dossier	
78-83-1	2-methylpropan-1-ol; iso-butanol						
	Acute fish toxicity	LC50 mg/l	1430	96 h	Pimephales promelas	Environ Toxicol Chem 14: 1591-1605 (1995)	Method according to Brooke LT et al.
	Acute algae toxicity	ErC50 mg/l	1799	72 h	Pseudokirchneriella subcapitata	Study report (2007)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	1100	48 h	Daphnia pulex	Environmental Toxicology and Chemistry 5	Method: ASTM Methods
	Crustacea toxicity	NOEC	20 mg/l	21 d	Daphnia magna	Water Res. 23(4): 501-510 (1989)	Method: The test was conducted in line w
1330-20-7	xylene						
	Acute fish toxicity	LL50 mg/l	(8,4)	96 h	Oncorhynchus mykiss	Ecotoxicology and Environmental Safety.	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	(4,9)	72 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety.	OECD Guideline 201
	Acute crustacea toxicity	EL50 mg/l	(> 3,4)	48 h	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	US EPA 600/4-91-003
	Fish toxicity	NOEC mg/l	> 1,3	56 d	Oncorhynchus mykiss	Appl. Sci. Branch, Eng. Res. Cent. Denve	Fish were exposed in artificial streams
	Crustacea toxicity	NOEC mg/l	1,17	7 d	Ceriodaphnia dubia	Ecotoxicology and Environmental Safety 3	US EPA 600/4-91-003
	Acute bacteria toxicity		(> 175 mg/l)	0,5 h	Activated sludge	Research Journal WPCF 60(10) 1850-1856 (OECD Guideline 209
123-86-4	n-butyl acetate						
	Acute fish toxicity	LC50	18 mg/l	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203
	Acute algae toxicity	ErC50	648 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Daphnia sp.	Publication (1959)	OECD Guideline 202

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	Crustacea toxicity	NOEC mg/l	23,2	21 d	Daphnia magna	Study report (2000)	OECD Guideline 211
67-56-1	methanol						
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975
	Acute algae toxicity	ErC50 mg/l	ca. 22000	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	18260	48 h	Daphnia magna	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-10-4	tetraethyl silicate; ethyl silicate			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	98%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
541-02-6	Decamethylcyclopentasiloxane			
	OECD 310	0,14	28	ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).			
78-83-1	2-methylpropan-1-ol; iso-butanol			
	OECD 301D/ EEC 92/69/V, C.4-E	70-80%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
1330-20-7	xylene			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	87,8%	28	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D
	Easily biodegradable (concerning to the criteria of the OECD)			
123-86-4	n-butyl acetate			
	OECD 301D / EEC 92/69 annex V, C.4-E	83%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
67-56-1	methanol			
	other guideline	76%	20	ECHA Dossier
	67-56-1			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-86-4	2-methoxyethanol; ethylene glycol monomethyl ether	-0,77
541-02-6	Decamethylcyclopentasiloxane	8,023
78-83-1	2-methylpropan-1-ol; iso-butanol	10
1330-20-7	xylene	3,2
123-86-4	n-butyl acetate	200
67-56-1	methanol	-0,77

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BCF

CAS No	Chemical name	BCF	Species	Source
541-02-6	Decamethylcyclopentasiloxane	7060	Pimephales promelas	ECHA
1330-20-7	xylene	5,5 - 12,2	Oncorhynchus mykiss	Appl. Sci. Branch, E
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi

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. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1139
14.2. UN proper shipping name:	COATING SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III

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Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)**14.1. UN number:** UN 1139**14.2. UN proper shipping name:** Coating solution**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)**14.1. UN number:** UN 1139**14.2. UN proper shipping name:** COATING SOLUTION**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Marine pollutant: NO
 Special Provisions: 955
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:** UN 1139**14.2. UN proper shipping name:** COATING SOLUTION**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



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Special Provisions:	A3	
Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

See section 8.

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 regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

2-methoxyethanol; ethylene glycol monomethyl ether; Decamethylcyclopentasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3: n-butyl acetate

Entry 30: 2-methoxyethanol; ethylene glycol monomethyl ether; 2-methoxypropyl acetate

Entry 69: methanol

Entry 70: Decamethylcyclopentasiloxane

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 30, 40, 69, 70

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D):

2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

tetraethyl silicate; ethyl silicate

2-methylpropan-1-ol; iso-butanol

n-butyl acetate

methanol

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SECTION 16: Other information**Changes**

Rev. 1.00; Initial release 29.10.2019

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

AGW: Arbeitsplatzgrenzwert

AVV: Abfallverzeichnisverordnung

CAS Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung

EINECS: European Inventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS Technische Regeln fuer Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

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

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 1B; H360FD	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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

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