

Synmar Venti DOT 3

Version number: 4.0
Replaces version of: 2022-05-18 (3)

Revision: 2024-08-06

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

1.1 Product identifier

Trade name	Synmar Venti DOT 3
Unique formula identifier (UFI)	CG40-30G9-E00X-3Q0T
Article number	S400750

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

Relevant identified uses	Brake fluid Industrial use Professional use Consumer use
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1.3 Details of the supplier of the safety data sheet

Synmar B.V.
Albert Schweitzerstraat 7
7131 PG Lichtenvoorde
Netherlands

Telephone: +31 (0) 33 303 3044
e-mail: info@synmar.nl
Website: www.synmar.nl

e-mail (competent person)	info@synmar.nl
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1.4 Emergency telephone number

Emergency information service	+31 (0) 33 303 3044 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00
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Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.7	reproductive toxicity	2	Repr. 2	H361fd

For full text of H-phrases: see SECTION 16

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word	Warning
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- pictograms

GHS07, GHS08



- hazard statements

H319 Causes serious eye irritation.
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

- precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P270 Do not eat, drink or smoke when using this product.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 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 POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Tactile warning of danger yes

- hazardous ingredients for labelling

Contains: Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
triethylene glycol monobutylether	CAS No 143-22-6 EC No 205-592-6 Index No 603-183-00-0	25 – 40	Eye Dam. 1 / H318		
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	CAS No 30989-05-0 EC No 250-418-4	15 – 25	Repr. 2 / H361fd		
2,2'-oxybisethanol	CAS No 111-46-6 EC No 203-872-2	10 – 15	Acute Tox. 4 / H302		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
	Index No 603-140-00-6				
3,6,9,12-tetraoxahexadecan-1-ol	CAS No 1559-34-8 EC No 216-322-1	5 – 10	Eye Irrit. 2 / H319		
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5 EC No 203-961-6 Index No 603-096-00-8	1 – 3	Eye Irrit. 2 / H319		
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	CAS No 111-77-3 EC No 203-906-6 Index No 603-107-00-6	< 0.25	Repr. 1B / H360D		

Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
triethylene glycol monobutylether	CAS No 143-22-6 EC No 205-592-6	Eye Dam. 1; H318: C ≥ 30 % Eye Irrit. 2; H319: 20 % ≤ C < 30 %	-	-	
2,2'-oxybisethanol	CAS No 111-46-6 EC No 203-872-2	-	-	500 mg/kg	oral
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	CAS No 111-77-3 EC No 203-906-6	Repr. 1B; H360D: C ≥ 3 %	-	-	

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

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Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If vomiting occurs, keep head lower than the hips to help prevent aspiration. If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

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

Water mist; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO₂);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture**Hazardous combustion products**

During fire hazardous fumes/smoke could be produced: carbon monoxide (CO), carbon dioxide (CO₂).

5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety. Ventilate affected area. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up**Advice on how to contain a spill**

Bunding. Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids, reducing agents.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Recommended storage temperature: 15 – 30 °C

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

There is no additional information.

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

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
GB	2,2'-oxydiethanol	111-46-6	WEL	23	101				EH40/2005
GB	2-(2-methoxyethoxy)ethanol	111-77-3	WEL	10	50.1			H	EH40/2005
GB	2-(2-butoxyethoxy)ethanol	112-34-5	WEL	10	67.5	15	101.2		EH40/2005

Notation

H absorbed through the skin

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless

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Notation

otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
triethylene glycol monobutylether	143-22-6	DNEL	195 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
triethylene glycol monobutylether	143-22-6	DNEL	208 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
triethylene glycol monobutylether	143-22-6	DNEL	117 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
triethylene glycol monobutylether	143-22-6	DNEL	125 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
triethylene glycol monobutylether	143-22-6	DNEL	12.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DNEL	29.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DNEL	8.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DNEL	7.2 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DNEL	4.1 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DNEL	4.1 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	60 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2,2'-oxybisethanol	111-46-6	DNEL	43 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	12 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	12 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
2,2'-oxybisethanol	111-46-6	DNEL	21 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	DNEL	3 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40.5 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	40.5 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	60.7 mg/m ³	human, inhalatory	consumer (private households)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	50 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	101.2 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	6.25 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	DNEL	50.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	DNEL	2.22 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	DNEL	30.1 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	DNEL	1.33 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	DNEL	7.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
triethylene glycol monobutylether	143-22-6	PNEC	2 mg/l	aquatic organisms	freshwater	short-term (single instance)
triethylene glycol monobutylether	143-22-6	PNEC	0.2 mg/l	aquatic organisms	marine water	short-term (single instance)
triethylene glycol monobutylether	143-22-6	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
triethylene glycol monobutylether	143-22-6	PNEC	7.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
triethylene glycol monobutylether	143-22-6	PNEC	0.77 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
triethylene glycol	143-22-6	PNEC	0.47 mg/kg	terrestrial organ-	soil	short-term (single

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
monobutylether				isms		instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	0.211 mg/l	aquatic organisms	freshwater	short-term (single instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	0.021 mg/l	aquatic organisms	marine water	short-term (single instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	0.76 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	0.076 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	PNEC	0.028 mg/kg	terrestrial organisms	soil	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	10 mg/l	aquatic organisms	water	intermittent release
2,2'-oxybisethanol	111-46-6	PNEC	10 mg/l	aquatic organisms	freshwater	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	199.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	20.9 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	2.09 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	1.53 mg/kg	terrestrial organisms	soil	short-term (single instance)
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	PNEC	2.5 mg/l	aquatic organisms	freshwater	short-term (single instance)
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	PNEC	0.25 mg/l	aquatic organisms	marine water	short-term (single instance)
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	PNEC	9.49 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	PNEC	0.95 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3,6,9,12-tetraoxa-hexadecan-1-ol	1559-34-8	PNEC	0.46 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	56 mg/kg	aquatic organisms	water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	11 mg/l	aquatic organisms	water	intermittent release
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single

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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
butoxyethoxy)ethanol						instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	12 mg/l	aquatic organisms	water	intermittent release
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	12 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	1.2 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	10,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	44.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	PNEC	2.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



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Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of materialNitrile rubber (≥ 0.2 mm)Butyl rubber (≥ 0.3 mm)**- breakthrough time of the glove material**

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

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

Physical state	liquid
Colour	amber
Odour	odourless
Melting point/freezing point	<-50 °C
Boiling point or initial boiling point and boiling range	>210 °C
Evaporation rate	0.0001 (n-butyl acetate = 1)
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: UEL: not determined
Flash point	>100 °C
Auto-ignition temperature	>280 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	300 °C
pH (value)	7 – 10.5
Kinematic viscosity	5 – 10 cSt at 20 °C

Solubility

Water solubility	miscible in any proportion
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Partition coefficient n-octanol/water (log value)	1.5
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Vapour pressure	1 mbar
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Density and/or relative density

Density	1.01 – 1.06 g/cm ³
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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9.2 Other information

There is no additional information.

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Evaporation rate	0.0001 (n-butyl acetate = 1)
Miscibility	Completely miscible with water.

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Acids, bases, oxidisers, reducing agents.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

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Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
2,2'-oxybisethanol	111-46-6	oral	500 mg/kg

Acute toxicity of components					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
triethylene glycol monobutylether	143-22-6	dermal	LD50	3,540 mg/kg	rabbit
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	oral	LD50	>2,000 mg/kg	rat
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	dermal	LD50	>2,000 mg/kg	rat
2,2'-oxybisethanol	111-46-6	dermal	LD50	13,300 mg/kg	rabbit
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	oral	LD50	2,630 mg/kg	rat
2-(2-butoxyethoxy)ethanol	112-34-5	oral	LD50	2,410 mg/kg	mouse
2-(2-butoxyethoxy)ethanol	112-34-5	dermal	LD50	2,764 mg/kg	rabbit
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	oral	LD50	7,128 mg/kg	mouse
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	dermal	LD50	9,404 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)			
Endpoint	Value	Species	Exposure time
LC50	>100 mg/l	fish	96 h

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
triethylene glycol monobutylether	143-22-6	LC50	4,600 mg/l	fish	96 h
triethylene glycol monobutylether	143-22-6	EC50	780 mg/l	algae	72 h
triethylene glycol monobutylether	143-22-6	ErC50	840 mg/l	algae	72 h
triethylene glycol monobutylether	143-22-6	NOEC	1,000 mg/l	fish	96 h
triethylene glycol monobutylether	143-22-6	growth (EbCx) 10%	151.7 mg/l	algae	72 h
triethylene glycol monobutylether	143-22-6	growth rate (Er-Cx) 10%	190 mg/l	algae	72 h
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	LC50	>222.2 mg/l	fish	24 h
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	EC50	>211.2 mg/l	aquatic invertebrates	24 h
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	ErC50	>224.4 mg/l	algae	72 h
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	NOEC	<211.2 mg/l	aquatic invertebrates	24 h
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	growth (EbCx) 10%	>500 mg/l	aquatic invertebrates	24 h
2,2'-oxybisethanol	111-46-6	EC50	>10,000 mg/l	aquatic invertebrates	24 h
2,2'-oxybisethanol	111-46-6	LC50	75,222 mg/l	fish	96 h
2,2'-oxybisethanol	111-46-6	NOEC	>100 mg/l	algae	72 h
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	LC50	>1,800 mg/l	fish	48 h
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	EC50	>3,200 mg/l	aquatic invertebrates	24 h
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	ErC50	1,686 mg/l	algae	48 h
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	NOEC	1,800 mg/l	aquatic invertebrates	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	LC50	1,300 mg/l	fish	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	EC50	>100 mg/l	aquatic invertebrates	48 h
2-(2-butoxyethoxy)ethanol	112-34-5	ErC50	>100 mg/l	algae	96 h
2-(2-butoxyethoxy)ethanol	112-34-5	NOEC	≥100 mg/l	aquatic invertebrates	48 h
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	LC50	5,741 mg/l	fish	96 h
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	EC50	1,192 mg/l	aquatic invertebrates	48 h
2-(2-methoxyethoxy)ethanol; di-	111-77-3	growth (EbCx)	688	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethylene glycol monomethyl ether		10%	mg/l		

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
triethylene glycol monobutylether	143-22-6	NOEC	>100 mg/l	aquatic invertebrates	21 d
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	EC50	>1,000 mg/l	microorganisms	30 min
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	growth (EbCx) 20%	>1,000 mg/l	microorganisms	30 min
2,2'-oxybisethanol	111-46-6	LC50	>1,500 mg/l	fish	28 d
2,2'-oxybisethanol	111-46-6	EC50	33,911 mg/l	aquatic invertebrates	21 d
2,2'-oxybisethanol	111-46-6	NOEC	>40 mg/l	fish	28 d
2,2'-oxybisethanol	111-46-6	growth (EbCx) 20%	>1,995 mg/l	microorganisms	30 min
2-(2-butoxyethoxy)ethanol	112-34-5	growth (EbCx) 10%	>1,995 mg/l	microorganisms	30 min
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	EC50	>1,000 mg/l	microorganisms	30 min
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	growth (EbCx) 20%	>1,000 mg/l	microorganisms	30 min

12.2 Persistence and degradability

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method
triethylene glycol monobutylether	143-22-6	oxygen depletion	3 %	5 d	
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0	DOC removal	>70 %	10 d	
2,2'-oxybisethanol	111-46-6	DOC removal	102 %	28 d	
2,2'-oxybisethanol	111-46-6	carbon dioxide generation	71 %	28 d	
2,2'-oxybisethanol	111-46-6	oxygen depletion	≥83 %	14 d	
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8	oxygen depletion	5 %	7 d	
2-(2-butoxyethoxy)ethanol	112-34-5	oxygen depletion	85 %	28 d	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3	carbon dioxide generation	9.1 %	3 d	

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

n-octanol/water (log KOW)	1.5
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Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
triethylene glycol monobutylether	143-22-6		0.51 (pH value: 7, 25 °C)	
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	30989-05-0		-0.62 (pH value: 7)	
2,2'-oxybisethanol	111-46-6	100	-1.98	
3,6,9,12-tetraoxahexadecan-1-ol	1559-34-8		0.436 (pH value: 6.6, 25.5 °C)	
2-(2-butoxyethoxy)ethanol	112-34-5		1 (pH value: 7, 20 °C)	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	111-77-3		-0.47 (pH value: 6.7, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- | | | |
|------|---|---|
| 14.1 | UN number | not subject to transport regulations |
| 14.2 | UN proper shipping name | not relevant |
| 14.3 | Transport hazard class(es) | none |
| 14.4 | Packing group | not assigned |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user | There is no additional information. |
| 14.7 | Maritime transport in bulk according to IMO instruments | No data available. |

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Additional information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
2,2'-oxybisethanol	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

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Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (GB)**List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list**

None of the ingredients are listed.

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
Synmar Venti DOT 3	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	R55	55
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	2-(2-methoxyethoxy)ethanol (DEGME)	R54	54
2-(2-methoxyethoxy)ethanol; diethylene glycol monomethyl ether	toxic for reproduction	R28-30	30

Legend

R28-30

Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:

1. Shall not be placed on the market, or used,
 - as substances,
 - as constituents of other substances, or,
 - in mixtures,

For supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:

- either the relevant specific concentration limit specified in the GB mandatory classification and labelling list, or, the relevant generic concentration limit specified in the GB mandatory classification and labelling list.

Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:

'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:

- (a) medicinal or veterinary products as defined by the Veterinary Regulations 2013 and the Human Medicines Regulations 2012;
- (b) cosmetic products as defined by Regulation 1223/2009;

- (c) the following fuels and oil products:

- motor fuels which are covered by the Motor Fuel (Composition and Content) Regulations 1999,
- mineral oil products intended for use as fuel in mobile or fixed combustion plants,
- fuels sold in closed systems (e.g. liquid gas bottles);

- (d) artists' paints covered by Regulation (EC) No 1272/2008;

- (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.

R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with R65 or H304,

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.

5. Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

- (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil'

- or even sucking the wick of lamps

- may lead to life-threatening lung damage';

- (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1

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Legend

December 2010 as

follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';

(c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.

7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the Agency.

R54 Shall not be placed on the market after 27 June 2010. for supply to the general public, as a constituent of paints, paint strippers, cleaning agents, self-shining emulsions or floor sealants in concentrations equal to or greater than 0.1 % by weight.

R55 1. Shall not be placed on the market for the first time after 27 June 2010. for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.
2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.
3. Without prejudice to other legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3% by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:
'Do not use in paint spraying equipment'.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1		Unique formula identifier (UFI): CG40-30G9-E00X-3Q0T
1.2	Uses advised against: Do not use for squirting or spraying.	
2.1		Classification (acc. to GB CLP): change in the listing (table)
2.2	- signal word: Danger	- signal word: Warning
2.2		- pictograms: change in the listing (table)
2.2		- hazard statements: change in the listing (table)
2.2		Tactile warning of danger: yes
2.2	- hazardous ingredients for labelling: Contains: Ethanol, 2-butoxy-, manufacture of, by-products from; 2,2' -oxybisethanol; diethylene glycol; triethylene glycol monobutyl ether.	- hazardous ingredients for labelling: Contains: Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] or-thoborate.
2.3	Other hazards: There is no additional information.	Other hazards
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
3.2		Mixtures: change in the listing (table)
3.2		Mixtures: change in the listing (table)
4.1	Following eye contact:	Following eye contact:

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	Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.	Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.
4.1	Following ingestion: Rinse mouth with water (only if the person is conscious). Induce vomiting when the affected person is not unconscious. Call a POISON CENTER/doctor.	Following ingestion: Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. If vomiting occurs, keep head lower than the hips to help prevent aspiration. If medical attention is delayed, give adults 90-120 ml hard liquor such as 40% v/v spirits. Call a POISON CENTER or doctor if you feel unwell.
4.2	Most important symptoms and effects, both acute and delayed	Most important symptoms and effects, both acute and delayed: Symptoms and effects are not known to date.
4.2	If on skin: Irritation and significant inflammation of the skin (dermatitis) due to the defatting properties of the product may be caused by repeated or prolonged exposure.	
4.2	If swallowed: Nausea. Diarrhoea.	
6.3	Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.). Pump out large quantities.	Advice on how to clean up a spill: Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).
7.2	- incompatible substances or mixtures: Keep away from oxidising substances, acids.	- incompatible substances or mixtures: Keep away from alkalis, oxidising substances, acids, reducing agents.
7.2	Storage temperature: Recommended storage temperature: Room temperature Maximum storage temperature: ≤40 °C	Storage temperature: Recommended storage temperature: 15 – 30 °C
7.2	Maximum storage period: 60 ms	
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components: change in the listing (table)
8.2	Appropriate engineering controls: General ventilation.	Appropriate engineering controls: General ventilation. Provide eyewash stations and safety showers at the workplace.
8.2	Eye/face protection: eye protection must be worn Use safety goggle with side protection	Eye/face protection: eye protection must be worn Use safety goggle with side protection
8.2	Skin protection: wear protective clothing Chemical protective clothing.	Skin protection: wear protective clothing Chemical protective clothing.
8.2	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of	Hand protection: safety gloves must be worn Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of

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Section	Former entry (text/value)	Actual entry (text/value)
	these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	these gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
8.2	Type of material: PVC: polyvinyl chloride, Nitrile rubber, Butyl rubber	Type of material: Nitrile rubber (≥ 0.2 mm) Butyl rubber (≥ 0.3 mm)
8.2	Material thickness: Use gloves with a minimum material thickness: ≥ 0.38 mm.	
8.2	Breakthrough times of the glove material: Use gloves with a minimum breakthrough times of the glove material: >480 minutes (permeation: level 6).	Breakthrough time of the glove material: Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).
8.2	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Provide eyewash stations and safety showers at the workplace.	- other protection measures: Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.
8.2	Respiratory protection: In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).	Respiratory protection: In case of inadequate ventilation wear respiratory protection. Type: A (against organic gases and vapours with a boiling point of > 65 °C, colour code: Brown).
9.1	Colour: yellow	Colour: amber
9.1	Boiling point or initial boiling point and boiling range: >230 °C	Boiling point or initial boiling point and boiling range: >210 °C
9.1	Evaporation rate: <0.1 (n-butyl acetate = 1)	Evaporation rate: 0.0001 (n-butyl acetate = 1)
9.1	Lower and upper explosion limit: LEL: 0.6 vol% UEL: 7 vol%	Lower and upper explosion limit: LEL: UEL: not determined
9.1	Flash point: 110 °C	Flash point: >100 °C
9.1	Auto-ignition temperature: >324 °C (auto-ignition temperature (liquids and gases))	Auto-ignition temperature: >280 °C (auto-ignition temperature (liquids and gases))
9.1	Decomposition temperature: no data available	Decomposition temperature: 300 °C
9.1	pH (value): 7 – <11.5	pH (value): 7 – 10.5
9.1	Kinematic viscosity: 10 – 20 cSt	Kinematic viscosity: 5 – 10 cSt at 20 °C
9.1	Partition coefficient n-octanol/water (log value): <2	Partition coefficient n-octanol/water (log value): 1.5
9.1	Vapour pressure: <2 hPa at 20 °C	Vapour pressure: 1 mbar
9.1		Density and/or relative density
9.1	Density: 1.035 – 1.045 kg/l	Density: 1.01 – 1.06 g/cm³
9.1	Relative vapour density: >1 at 20 °C (air = 1)	Relative vapour density: information on this property is not available
9.2		Evaporation rate: 0.0001 (n-butyl acetate = 1)

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10.4	Conditions to avoid: Moisture, overheating.	Conditions to avoid: There are no specific conditions known which have to be avoided.
10.5	Incompatible materials: Acids, oxidisers.	Incompatible materials: Acids, bases, oxidisers, reducing agents.
11.1	Acute toxicity: Harmful if swallowed.	Acute toxicity: Shall not be classified as acutely toxic.
11.1	Acute toxicity estimate (ATE)	
11.1		Acute toxicity estimate (ATE): change in the listing (table)
11.1	Acute toxicity of components of the mixture	
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)
11.1		Acute toxicity of components: change in the listing (table)
11.1	Serious eye damage/eye irritation: Causes serious eye damage.	Serious eye damage/eye irritation: Causes serious eye irritation.
11.1	Reproductive toxicity: Shall not be classified as a reproductive toxicant.	Reproductive toxicity: Suspected of damaging the unborn child. Suspected of damaging fertility.
11.2		Information on other hazards
11.2		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
12.1		Aquatic toxicity (acute): change in the listing (table)
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)
12.2	Persistence and degradability: Not readily biodegradable.	Persistence and degradability
12.2		Degradability of components: change in the listing (table)
12.3	n-octanol/water (log KOW): <2	n-octanol/water (log KOW): 1.5
12.3		Bioaccumulative potential of components: change in the listing (table)
12.4	Mobility in soil: Large quantities can penetrate the soil and pollute the groundwater. This product floats on water and may affect the oxygen-balance in the water.	Mobility in soil: Data are not available.
12.5	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.
15.1		List of pollutants (WFD): change in the listing (table)
15.1		Dangerous substances with restrictions (GB REACH, Annex 17):

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Section	Former entry (text/value)	Actual entry (text/value)
		change in the listing (table)
16	Indication of changes (revised safety data sheet): Complete revision of the safety data sheet.	
16		Abbreviations and acronyms: change in the listing (table)
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

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Abbr.	Descriptions of used abbreviations
	1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.