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

1.1 Product identifier

Trade name	**blaugelb Dichtungspflege**
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	NKP0-AP9X-AU0Y-75MC
Article number	9257161

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

Relevant identified uses	coating

1.3 Details of the supplier of the safety data sheet

Meesenburg GmbH & Co. KG
Westerallee 162
24941 Flensburg
Telephone: +49(0)4615808-2000
Telefax: +49(0)4615808-1101
e-mail: info@blaugelb.de
Website: www.meesenburg.de

e-mail (competent person)	Meesenburg GmbH & Co. KG info@blaugelb.de

1.4 Emergency telephone number

Emergency information service	+49(0)89-19240 24 hours emergency information -

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses. The mixture contains a substance that was identified as a PBT (persistent, bioaccumulative and toxic). The mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word not required
- Pictograms not required

- Hazard statements

H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P273	Avoid release to the environment.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional labelling requirements

- Supplemental hazard information

EUH208	Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of ≥ 0,1%. Contains a vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Contains an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Specific Conc. Limits	M-Factors
Sodium dodecylbenzenesulfonate	CAS No 25155-30-0 EC No 246-680-4	< 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318			
Alcohols, secondary C11-15, ethoxylated	CAS No 68131-40-8	< 1	Aquatic Chronic 3 / H412			
Octamethylcyclotetrasiloxane	CAS No 556-67-2 EC No 209-136-7 Index No 014-018-00-1 REACH Reg. No 01-2119529238-36-xxxx	< 0.3	Flam. Liq. 3 / H226 Repr. 2 / H361f Aquatic Chronic 1 / H410			M-factor (chronic) = 10
2-methyl-2H-isothiazol-3-one	CAS No 2682-20-4 EC No 220-239-6 Index No 613-326-00-9	< 0.1	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		Skin Sens. 1A; H317: C ≥ 0.002 %	M-factor (acute) = 10

Hazardous ingredients: Concentration limit, M-Factor, ATE

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Sodium dodecylbenzenes-ulfonate	-	-	650 $^{mg}/_{kg}$	oral
2-methyl-2H-isothiazol-3-one	Skin Sens. 1A; H317: C ≥ 0.002 %	M-factor (acute) = 10	120 $^{mg}/_{kg}$ 242 $^{mg}/_{kg}$ 0.11 $^{mg}/_{l}$/4h	oral dermal inhalation: dust/mist

Remarks

For full text of abbreviations: 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. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Pyrolysis products, toxic

5.3 Advice for firefighters

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Handling and storage: see section 7. 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

- Incompatible substances or mixtures

Observe hints for combined storage. Incompatible materials: see section 10.

Control of effects

Protect against external exposure, such as

frost

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

this information is not available

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	52 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	57.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	26 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	28.6 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	40 mg/kg bw/day	human, dermal	consumer (private households)	acute - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	13 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Sodium dodecylbenzenesulfonate	25155-30-0	DNEL	13 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
Alcohols, secondary C11-15, ethoxylated	68131-40-8	DNEL	42.32 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, secondary C11-15, ethoxylated	68131-40-8	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, secondary C11-15, ethoxylated	68131-40-8	DNEL	21.16 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Alcohols, secondary C11-15, ethoxylated	68131-40-8	DNEL	3 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Alcohols, secondary C11-15, ethoxylated	68131-40-8	DNEL	3 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	73 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	13 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	13 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
Octamethylcyclotetrasiloxane	556-67-2	DNEL	3.7 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.021 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.043 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.021 mg/m³	human, inhalatory	consumer (private households)	chronic - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.043 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.027 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2-methyl-2H-isothiazol-3-one	2682-20-4	DNEL	0.053 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	0.693 mg/l	aquatic organisms	freshwater	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	1 mg/l	aquatic organisms	marine water	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	50 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	27.5 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	2.75 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	10 mg/m³	aquatic organisms	air	short-term (single instance)
Sodium dodecylbenzenesulfonate	25155-30-0	PNEC	25 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	20 µg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	2 µg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	8.24 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	28.1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	2.81 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, secondary C11-15, ethoxylated	68131-40-8	PNEC	5.6 mg/kg	terrestrial organisms	soil	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	1.5 µg/l	aquatic organisms	freshwater	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0.15 µg/l	aquatic organisms	marine water	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

Relevant PNECs of components						
Name of substance	**CAS No**	**Endpoint**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
Octamethylcyclotetrasiloxane	556-67-2	PNEC	3 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0.3 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Octamethylcyclotetrasiloxane	556-67-2	PNEC	0.84 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	3.39 $^{µg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	3.39 $^{µg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	0.23 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-methyl-2H-isothiazol-3-one	2682-20-4	PNEC	0.047 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (EN 166).

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Other protection measures

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

Body protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. 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	not determined
Odour	characteristic
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	7
Kinematic viscosity	not determined

Solubility(ies)

Water solubility	miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	23 hPa at 20 °C

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

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

Other safety characteristics

Miscibility	Completely miscible with water.

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

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

UV-radiation/sunlight. Heat.

10.5 Incompatible materials

There is no additional information.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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 according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Sodium dodecylbenzenesulfonate	25155-30-0	oral	650 $^{mg}/_{kg}$
2-methyl-2H-isothiazol-3-one	2682-20-4	oral	120 $^{mg}/_{kg}$
2-methyl-2H-isothiazol-3-one	2682-20-4	dermal	242 $^{mg}/_{kg}$
2-methyl-2H-isothiazol-3-one	2682-20-4	inhalation: dust/mist	0.11 $^{mg}/_{l}$/4h

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Sodium dodecylbenzenesulfonate	25155-30-0	oral	LD50	650 $^{mg}/_{kg}$	rat
Sodium dodecylbenzenesulfonate	25155-30-0	inhalation: dust/mist	LC50	310 $^{mg}/_{m³}$/4h	rat
Sodium dodecylbenzenesulfonate	25155-30-0	dermal	LD50	>2,000 $^{mg}/_{kg}$	rat
Alcohols, secondary C11-15, ethoxylated	68131-40-8	oral	LD50	≥2,000 $^{mg}/_{kg}$	rat
Alcohols, secondary C11-15, ethoxylated	68131-40-8	dermal	LD50	>2,000 $^{mg}/_{kg}$	rat
Octamethylcyclotetrasiloxane	556-67-2	oral	LD50	>4,800 $^{mg}/_{kg}$	rat
Octamethylcyclotetrasiloxane	556-67-2	inhalation: dust/mist	LC50	36 $^{mg}/_{l}$/4h	rat

Acute toxicity of components					
Name of substance	**CAS No**	**Exposure route**	**Endpoint**	**Value**	**Species**
2-methyl-2H-isothiazol-3-one	2682-20-4	oral	LD50	120 $^{mg}/_{kg}$	rat
2-methyl-2H-isothiazol-3-one	2682-20-4	inhalation: dust/mist	LC50	0.11 $^{mg}/_{l}$/4h	rat
2-methyl-2H-isothiazol-3-one	2682-20-4	dermal	LD50	242 $^{mg}/_{kg}$	rat

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation
Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation
Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

Germ cell mutagenicity
Shall not be classified as germ cell mutagenic.

Carcinogenicity
Shall not be classified as carcinogenic.

Reproductive toxicity
Shall not be classified as a reproductive toxicant.

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
There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity
Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Sodium dodecylbenzenesulfonate	25155-30-0	LC50	6.926 – 7.16 $^{mg}/_{l}$	fish	96 h
Sodium dodecylbenzenesulfonate	25155-30-0	EC50	6.3 $^{mg}/_{l}$	aquatic invertebrates	48 h
Sodium dodecylbenzenesulfonate	25155-30-0	ErC50	29 $^{mg}/_{l}$	algae	96 h
Alcohols, secondary C11-15, ethoxylated	68131-40-8	LL50	1.53 $^{mg}/_{l}$	fish	96 h
Alcohols, secondary C11-15, ethoxylated	68131-40-8	EL50	5.66 $^{mg}/_{l}$	aquatic invertebrates	48 h
Octamethylcyclotetrasiloxane	556-67-2	LC50	>22 $^{µg}/_{l}$	fish	96 h
Octamethylcyclotetrasiloxane	556-67-2	EC50	>15 $^{µg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (acute) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Octamethylcyclotetrasiloxane	556-67-2	ErC50	>22 µg/l	algae	96 h
2-methyl-2H-isothiazol-3-one	2682-20-4	LC50	4.77 mg/l	fish	96 h
2-methyl-2H-isothiazol-3-one	2682-20-4	EC50	1.7 mg/l	aquatic invertebrates	24 h
2-methyl-2H-isothiazol-3-one	2682-20-4	ErC50	>0.072 mg/l	algae	96 h

Aquatic toxicity (chronic) of components					
Name of substance	**CAS No**	**Endpoint**	**Value**	**Species**	**Exposure time**
Sodium dodecylbenzenesulfonate	25155-30-0	EC50	>500 – <723 mg/l	microorganisms	3 h
Alcohols, secondary C11-15, ethoxylated	68131-40-8	EC50	824 mg/l	microorganisms	3 h
Octamethylcyclotetrasiloxane	556-67-2	LC50	10 µg/l	fish	14 d
Octamethylcyclotetrasiloxane	556-67-2	EC50	>15 µg/l	aquatic invertebrates	21 d
2-methyl-2H-isothiazol-3-one	2682-20-4	EC50	1.4 mg/l	aquatic invertebrates	21 d
2-methyl-2H-isothiazol-3-one	2682-20-4	ErC50	0.22 mg/l	algae	120 h

12.2 Persistence and degradability

Degradability of components						
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**	**Source**
Alcohols, secondary C11-15, ethoxylated	68131-40-8	oxygen depletion	65 %	28 d		ECHA
Octamethylcyclotetrasiloxane	556-67-2	carbon dioxide generation	3.7 %	29 d		ECHA
2-methyl-2H-isothiazol-3-one	2682-20-4	carbon dioxide generation	54.1 %	29 d		ECHA
2-methyl-2H-isothiazol-3-one	2682-20-4	oxygen depletion	0 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
Sodium dodecylbenzenesulfonate	25155-30-0	130	1.96 (pH value: 7, 25 °C)	
Alcohols, secondary C11-15, ethoxylated	68131-40-8	≥181 – ≤3,010	3.382	

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
Octamethylcyclotetrasiloxane	556-67-2	12,400	6.98 (pH value: 7, 21.7 °C)	
2-methyl-2H-isothiazol-3-one	2682-20-4	5.75	-0.486 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Contains a PBT-substance at a concentration of ≥ 0,1%. Contains a vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Contains an endocrine disruptor (ED) at a concentration of ≥ 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. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

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

Relevant provisions relating to waste

List of wastes

- Product
08 02 99 wastes not otherwise specified

- Product residues
08 02 99 wastes not otherwise specified

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 or ID 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

The cargo is not intended to be carried in bulk.

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)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
blaugelb Dichtungspflege	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		R3	3
Octamethylcyclotetrasiloxane	octamethylcyclotetrasiloxane	556-67-2	R70	70
Octamethylcyclotetrasiloxane	flammable / pyrophoric		R40	40
Octamethylcyclotetrasiloxane	substances in tattoo inks and permanent make-up		R75	75

Legend

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 H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
(a) lamp oils, labelled with 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 H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

R70 1.Shall not be placed on the market
(a) as a substance on its own;

Legend

(b) as a constituent of other substances; or
(c) in mixtures;
in a concentration equal to or greater than 0,1 % by weight of the respective substance after 6 June 2026.
2. Shall not be used as a solvent for the dry cleaning of textiles, leather and fur after 6 June 2026.
3. By way of derogation:
(a) for D4 and D5 in wash-off cosmetic products, paragraph 1, point (c), shall apply after 31 January 2020.
For the purposes of this point, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1), point (a), of Regulation (EC) No 1223/2009 of the European Parliament and of the Council (*1) that, under normal conditions of use, are washed off with water after application;
(b) for all cosmetic products other than the ones mentioned in paragraph 3(a), paragraph 1 shall apply after 6 June 2027;
(c) for devices as defined in Article 1(4) of Regulation (EU) 2017/745 of the European Parliament and of the Council (*2) and in Article 1(2) of Regulation (EU) 2017/746 of the European Parliament and the Council (*3), paragraph 1 shall apply after 6 June 2031;
(d) for medicinal products, as defined in Article 1, point 2, of Directive 2001/83/EC, and for veterinary medicinal products, as defined in Article 4(1) of Regulation (EU) 2019/6 (*4), paragraph 1 shall apply after 6 June 2031;
(e) for D5 as a solvent in the dry cleaning of textiles, leather and fur, paragraphs 1 and 2 shall apply after 6 June 2034.
4. By way of derogation, paragraph 1 shall not apply to the:
(a) placing on the market of D4, D5 and D6 for the following industrial uses:
— as a monomer in the production of silicone polymer,
— as an intermediate in the production of other silicon substances,
— as a monomer in polymerisation,
— in the formulation or (re)packing of mixtures,
— in the production of articles,
— in non-metal surface treatment;
(b) placing on the market of D5 and D6 for use as devices, as defined in Article 1(4) of Regulation (EU) 2017/745, for the treatment and care of scars and wounds, the prevention of wounds and the care of stoma;
(c) placing on the market of D5 for professional use in the cleaning or restoration of art and antiques;
(d) placing on the market of D4, D5 and D6 for use as laboratory reagent in research and development activities carried out under controlled conditions.
5. By way of derogation, paragraph 1, point (b), shall not apply to the placing on the market of D4, D5 and D6:
— as a constituent of a silicone polymer on its own,
— as a constituent of a silicone polymer in a mixture derogated under paragraph 6.
6. By way of derogation, paragraph 1, point (c), shall not apply to the placing on the market of mixtures that contain D4, D5 or D6 as residues from silicone polymers, under the following conditions:
(a) D4, D5 or D6 in a concentration equal to or less than 1 % by weight of the respective substance in the mixture, for use in adhesion, sealing, gluing and casting;
(b) D4 in a concentration equal to or less than 0,5 % by weight, or D5 or D6 in a concentration equal to or less than 0,3 % by weight of either substance in the mixture for use as protective coatings (including marine coatings);
(c) D4, D5 or D6 in a concentration equal to or less than 0,2 % by weight of the respective substance in the mixture, for use as devices as defined in Article 1(4) of Regulation (EU) 2017/745 and in Article 1(2) of Regulation (EU) 2017/746, other than the devices referred to in paragraph 6(d);
(d) D5 in a concentration equal to or less than 0,3 % by weight in the mixture or D6 in a concentration equal to or less than 1 % by weight in the mixture, for use as devices as defined in Article 1(4) of Regulation (EU) 2017/745, for dental impression;
(e) D4 in a concentration equal to or less than 0,2 % by weight in the mixture, or D5 or D6 in a concentration equal to or less than 1 % by weight of either substance in the mixture for use as silicone insoles for horses, or as horseshoes;
(f) D4, D5 or D6 in a concentration equal to or less than 0,5 % by weight of the respective substance in the mixture, for use as adhesion promoters;
(g) D4, D5 or D6 in a concentration equal to or less than 1 % by weight of the respective substance in the mixture, for use in 3D-printing;
(h) D5 in a concentration equal to or less than 1 % by weight in the mixture or D6 in a concentration equal to or less than 3 % by weight in the mixture, for rapid prototyping and mould making, or high performance uses stabilised by quartz filler;
(i) D5 or D6 in a concentration equal to or less than 1 % by weight of either substance in the mixture, for use in pad printing, or manufacturing of printing pads;
(j) D6 in a concentration equal to or less than 1 % by weight of the mixture, for professional use in the cleaning or restoration of art and antiques.
7. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for use, or to the use, of D5 as a solvent in strictly controlled closed dry cleaning systems for textile, leather and fur, where the cleaning solvent is recycled or incinerated.

R75 1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
(i) 0,1 % by weight, if the substance is used solely as a pH regulator;
(ii) 0,01 % by weight, in all other cases;
(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
(i) "Rinse-off products";

Legend

(ii) “Not to be used in products applied on mucous membranes”;
(iii) “Not to be used in eye products”;
(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture “for tattooing purposes” means injection or introduction of the mixture into a person’s skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
(a) the statement “Mixture for use in tattoos or permanent make-up”;
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. “Ingredient” means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement “pH regulator” for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
The information shall be clearly visible, easily legible and marked in a way that is indelible.
The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.
Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
8. Mixtures that do not contain the statement “Mixture for use in tattoos or permanent make-up” shall not be used for tattooing purposes.
9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

Substance of Very High Concern (SVHC)			
Name acc. to inventory	**CAS No**	**Listed in**	**Remarks**
octamethylcyclotetrasiloxane	556-67-2	Candidate list	PBT A57d vPvB A57e

Legend

Candidate list	Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV
PBT A57d	Persistent, Bioaccumulative and Toxic (article 57d)
vPvB A57e	Very Persistent and very Bioaccumulative (article 57e)

Deco-Paint Directive

VOC content	0.1981 %

Industrial Emissions Directive (IED)

VOC content	0.1961 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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	CAS No	Listed in	Remarks
Sodium dodecylbenzenesulfonate		a)	
Octamethylcyclotetrasiloxane		a)	

Legend

a)	Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National inventories

Country	Inventory	Status
EU	REACH Reg.	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

REACH Reg.	REACH registered substances
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

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

SECTION 16: Other information

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)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard

Abbr.	Descriptions of used abbreviations
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
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)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
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
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
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
Flam. Liq.	Flammable liquid
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 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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

Abbr.	Descriptions of used abbreviations
Repr.	Reproductive toxicity
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). 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
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

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