Safety Data Sheet



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

Big extra AF

Version number: 2.0Revision: 03.04.2023Replaces version of: 21.03.2023 (1)First version: 03.04.2023

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

1.1 Product identifier

Trade name Big extra AF

Registration number (REACH)Not relevant (mixture)

CAS number Not relevant (mixture)

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

Relevant identified usesSurface disinfectant

Uses advised against Do not use for squirting or spraying

Do not use for products which come into direct

contact with the skin

1.3 Details of the supplier of the safety data sheet

PLIWA Hygiene GmbH Telephone: +495661 / 7317 0
Pliwa-Straße 2 Telefax: +495661 / 7317 10
34323 Malsfeld-Ostheim e-mail: info@pliwa.de
Germany Website: www.pliwa.de

e-mail (competent person) sdb@csb-compliance.com

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact PLIWA Hygiene GmbH.

1.4 Emergency telephone number

Emergency information PLIWA Hygiene GmbH

+49 5661 / 7317 0

This number is only available during the follow-

ing office hours:

Mon - Thu 09:00 - 15:00

Fri 09:00 - 12:00

As above or nearest toxicological information centre.

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification Section **Hazard class** Category Hazard class and Hazard statecategory ment 3.10 acute toxicity (oral) 4 Acute Tox. 4 H302 3.2 skin corrosion/irritation 1B Skin Corr. 1B H314 H318 3.3 serious eye damage/eye irritation 1 Eye Dam. 1 4.1A H400 hazardous to the aquatic environment - acute 1 Aquatic Acute 1 hazard 4.1C hazardous to the aquatic environment -2 Aquatic Chronic 2 H411 chronic hazard

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word danger

Pictograms

GHS05, GHS07, GHS09



Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/eye protection/face protection. **P301+P330+P331** IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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Precautionary statements

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.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/interna-

tional regulations.

Hazardous ingredients for labelling quaternary ammonium compounds, benzyl-C12-

16-alkyldimethyl, chlorides

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

Didecyldimethylammonium chloride

Additional labelling requirements see section 15 of the safety data sheet

2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Aqueous solution, containing surfactants.

Concentrate.

Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
quaternary ammoni- um compounds, ben- zyl-C12-16-al- kyldimethyl, chlor- ides	CAS No 68424-85-1 EC No 270-325-2 939-253-5	10-<25	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	<u>!</u>	-

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Hazardous ingredients Identifier Name of substance Wt% Classification acc. to **Pictograms** Notes **GHS** 5 – < 10 2-(2-CAS No Eye Irrit. 2 / H319 GHS-HC butoxyethoxy)ethan-112-34-5 **IOELV** ol EC No 203-961-6 Index No 603-096-00-8 REACH Reg. No 01-2119475104-44-xxxx 5 – < 10 GHS-HC propan-2-ol CAS No Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 67-63-0 STOT SE 3 / H336 EC No 200-661-7 Index No 603-117-00-0 N-(3-aminopropyl)-N-CAS No 3-<5 Acute Tox. 3 / H301 dodecylpropane-1,3-2372-82-9 Skin Corr. 1B / H314 diamine Eye Dam. 1 / H318 EC No STOT RE 2 / H373 219-145-8 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 CAS No Alcohols, C12-14, eth-3-<5 Aquatic Acute 1 / H400 68439-51-0 oxylated propoxylated Didecyldimethylam-CAS No 1-<3 Acute Tox. 3 / H301 GHS-HC monium chloride 7173-51-5 Skin Corr. 1B / H314 Eye Dam. 1 / H318 EC No Aquatic Acute 1 / H400 230-525-2 Aquatic Chronic 2 / H411

Notes

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to

HC: 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlor- ides	<u>-</u>	M-factor (acute) = 10 M-factor (chronic) = 1	344 ^{mg} / _{kg}	oral

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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
N-(3-aminopropyl)-N-do- decylpropane-1,3-diam- ine	-	M-factor (acute) = 100 M-factor (chronic) = 1	243,6 ^{mg} / _{kg}	oral
Alcohols, C12-14, eth- oxylated propoxylated	-	M-factor (acute) = 1	-	-
Didecyldimethylam- monium chloride	-	M-factor (acute) = 10	238 ^{mg} / _{kg}	oral

For full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

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.

Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Call a physician immediately. Causes poorly healing wounds.

Following eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a doctor.

Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

None.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO2)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), hydrogen chloride (HCl)

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.

Special protective equipment for firefighters

self-contained breathing apparatus (EN 133)

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.

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

Special danger of slipping by leaking/spilling product.

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

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Advice on how to clean up a spill

Collect spillage.

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.

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

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

Measures to protect the environment

Avoid release to the environment.

Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards

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

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

high temperatures, frost

Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

Ventilation requirements

Provision of sufficient ventilation.

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Specific designs for storage rooms or vessels

Storage temperature

recommended storage temperature: 5 - 25 °C

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)											
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source			
DE	2-(2-butoxyeth- oxy)ethanol	112-34-5	AGW	10	67	15	100,5	va, Y	TRGS 900			
DE	butyl diglycol	112-34-5	MAK	10	67	15	100,5	va, DE- MAK-2	DFG			
DE	N-(3-aminopro- pyl)-N-dodecyl- propane-1,3- diamine	2372-82- 9	MAK	-	0,05	-	0,4	i	DFG			
DE	N-(3-aminopro- pyl)-N-dodecyl- propane-1,3- diamine	2372-82- 9	AGW	-	0,05	-	0,4	i, Y	TRGS 900			
DE	propan-2-ol	67-63-0	AGW	200	500	400	1.000	Υ	TRGS 900			
EU	2-(2-butoxyeth- oxy)ethanol	112-34-5	IOELV	10	67,5	15	101,2	-	2006/15/EC			

Notation

DE-MAK-2 MAK value for the sum of the air concentrations of butyl diglycol and butyl diglycol acetate.

i inhalable fraction

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

minute period (unless 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)

va as vapours and aerosols

Y a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the

biological limit value (BGW) are adhered to

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Biological limit values

Coun- try	Name of agent	Parameter	Nota- tion	Identifi- er	Value	Material	Source
DE	2-propanol	acetone	-	BAT	25 mg/l	whole blood	DFG
DE	2-propanol	acetone	-	BAT	25 mg/l	urine	DFG
DE	2-propanol	acetone	-	BLV	25 mg/l	whole blood	TRGS 903
DE	2-propanol	acetone	-	BLV	25 mg/l	urine	TRGS 903

Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlor- ides	68424-85-1	DNEL	3,96 mg/ m ³	human, inhalat- ory	worker (industry)	chronic - system- ic effects
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlor- ides	68424-85-1	DNEL	5,7 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
2-(2- butoxyethoxy)eth- anol	112-34-5	DNEL	67,5 mg/ m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
propan-2-ol	67-63-0	DNEL	500 mg/ m³	human, inhalat- ory	worker (industry)	chronic - system- ic effects
propan-2-ol	67-63-0	DNEL	888 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
N-(3-aminopropyl)- N-dodecylpropane- 1,3-diamine	2372-82-9	DNEL	0,789 mg/ m³	human, inhalat- ory	worker (industry)	chronic - system- ic effects
N-(3-aminopropyl)- N-dodecylpropane- 1,3-diamine	2372-82-9	DNEL	8,96 mg/ kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Didecyldimethyl- ammonium chlor- ide	7173-51-5	DNEL	8,6 mg/kg bw/day	human, dermal	worker (industry)	chronic - system- ic effects
Didecyldimethyl- ammonium chlor- ide	7173-51-5	DNEL	18,2 mg/ m³	human, inhalat- ory	worker (industry)	chronic - system- ic effects

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Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	0,001 ^{mg} / _l	freshwater
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	0,001 ^{mg} / _i	marine water
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	0,4 ^{mg} / _l	sewage treatment plant (STP)
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	12,27 ^{mg} / _{kg}	freshwater sediment
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	13,09 ^{mg} / _{kg}	marine sediment
quaternary ammonium com- pounds, benzyl-C12-16-al- kyldimethyl, chlorides	68424-85-1	PNEC	7 ^{mg} / _{kg}	soil
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1,1 ^{mg} / _l	freshwater
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,11 ^{mg} / _l	marine water
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4,4 ^{mg} / _{kg}	freshwater sediment
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,44 ^{mg} / _{kg}	marine sediment
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0,32 ^{mg} / _{kg}	soil
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	0,001 ^{mg} / _i	freshwater
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	0 ^{mg} / _l	marine water
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	0,18 ^{mg} / _l	sewage treatment plant (STP)
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	3,2 ^{mg} / _{kg}	freshwater sediment
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	0,13 ^{mg} / _{kg}	marine sediment
N-(3-aminopropyl)-N-dodecyl- propane-1,3-diamine	2372-82-9	PNEC	45,34 ^{mg} / _{kg}	soil
Didecyldimethylammonium chloride	7173-51-5	PNEC	1,1 ^{µg} / _l	freshwater

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Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental com- partment
Didecyldimethylammonium chloride	7173-51-5	PNEC	0,11 ^{µg} / _l	marine water
Didecyldimethylammonium chloride	7173-51-5	PNEC	0,14 ^{mg} / _l	sewage treatment plant (STP)
Didecyldimethylammonium chloride	7173-51-5	PNEC	61,86 ^{mg} / _{kg}	freshwater sediment
Didecyldimethylammonium chloride	7173-51-5	PNEC	6,186 ^{mg} / _{kg}	marine sediment
Didecyldimethylammonium chloride	7173-51-5	PNEC	1,4 ^{mg} / _{kg}	soil

2-(2-butoxyethoxy)ethanol: PNEC Oral - Predators - Secondary poisoning - 56 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection. (EN 166).

Hand protection

Protective gloves

Material	Material thickness	Breakthrough times of the glove material	
NBR: acrylonitrile-butadiene rubber	≥ 0,11 mm	>10 minutes (permeation: level 1)	
NR: natural rubber, latex	≥ 0,11 mm	>10 minutes (permeation: level 1)	
PVC: polyvinyl chloride	≥ 0,11 mm	>10 minutes (permeation: level 1)	

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

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.

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).

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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 clear - blue

Odour characteristic

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling ~100 °C

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit 0,77 vol% - 13,4 vol%

Flash point >60 °C

Auto-ignition temperature 210 °C

Decomposition temperature not relevant

pH (value) 9,5 – 10,5 (20 °C)

Kinematic viscosity not determined

Dynamic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient n-octanol/water (log value) not determined

Vapour pressure not determined

Density and/or relative density

Density 0,974 – 0,994 ^g/_{cm³} at 20 °C

Relative vapour density this information is not available

Particle characteristics not relevant

(liquid)

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9.2 Other information

Information with regard to physical hazard

classes

hazard classes acc. to GHS (physical hazards):

not relevant

Other safety characteristics

Temperature class (EU, acc. to ATEX)

T3

(maximum permissible surface temperature on the equip-

ment: 200°C)

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.

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

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

10.5 Incompatible materials

acids, oxidisers

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

Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

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

Acute toxicity

Test data are not available for the complete mixture.

Harmful if swallowed.

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Acute toxicity of components of the mixture

Name of substance	CAS No	Expos- ure route	End- point	Value	Species	Method	Source
quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlor- ides	68424-85-1	oral	LD50	344 ^{mg} /	rat	-	ECHA
quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlor- ides	68424-85-1	dermal	LD50	3.412 ^{mg} / _{kg}	rabbit	EPA OPPTS 870.1200	ECHA
2-(2-butoxyethoxy)ethan- ol	112-34-5	oral	LD50	2.410 ^{mg} / _{kg}	mouse, male	OECD Guideline 401	ECHA
2-(2-butoxyethoxy)ethan- ol	112-34-5	dermal	LD50	2.764 ^{mg} / _{kg}	rabbit, male	OECD Guideline 402	ECHA
propan-2-ol	67-63-0	oral	LD50	5.840 ^{mg} / _{kg}	rat	OECD Guideline 401	ECHA
propan-2-ol	67-63-0	dermal	LD50	12.800 ^{mg} / _{kg}	rabbit	-	-
N-(3-aminopropyl)-N-do- decylpropane-1,3-diam- ine	2372-82-9	oral	LD50	243,6 ^{mg} / _{kg}	rat, fe- male	OECD Guideline 401	ECHA
N-(3-aminopropyl)-N-do- decylpropane-1,3-diam- ine	2372-82-9	dermal	LD0	600 ^{mg} /	rat	-	
Alcohols, C12-14, eth- oxylated propoxylated	68439-51-0	oral	LD50	3.400 ^{mg} / _{kg}	rat	-	-
Didecyldimethylammoni- um chloride	7173-51-5	oral	LD50	238 ^{mg} /	rat	OECD Guideline 401	manufac- turer
Didecyldimethylammoni- um chloride	7173-51-5	dermal	LD50	3.342 ^{mg} / _{kg}	rabbit	-	manufac- turer

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation Skin sensitisation

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

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Respiratory sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

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 (EDC) in a concentration of \geq 0,1%.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Very toxic to aquatic organisms.

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	LC50	96 h	0,515 ^{mg} / _l	bluegill (Lepomis mac- rochirus)	EPA OPP 72-1	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	EC50	48 h	0,016 ^{mg} / _l	daphnia magna	EU method C.2	ECHA

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Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	ErC50	96 h	0,03 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
2-(2-butoxyeth- oxy)ethanol	112-34-5	LC50	96 h	1.300 ^{mg} / _l	bluegill (Lepomis mac- rochirus)	OECD Guideline 203	ECHA
2-(2-butoxyeth- oxy)ethanol	112-34-5	EC50	48 h	>100 ^{mg} / _l	daphnia magna	EU method C.2	ECHA
2-(2-butoxyeth- oxy)ethanol	112-34-5	ErC50	72 h	1.101 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
2-(2-butoxyeth- oxy)ethanol	112-34-5	EbC50	96 h	>100 ^{mg} / _l	algae (Desmod- esmus sub- spicatus)	OECD Guideline 201	ECHA
propan-2-ol	67-63-0	LC50	96 h	9.640 ^{mg} / _I	fathead min- now (Pimephales promelas)	OECD Guideline 203	ЕСНА
propan-2-ol	67-63-0	LC50	24 h	>10.000 ^{mg} /	daphnia magna	OECD Guideline 202	ECHA
N-(3-aminopro- pyl)-N-dodecyl- propane-1,3- diamine	2372-82-9	LC50	96 h	0,431 ^{mg} / _l	zebra fish (Danio rerio)	OECD Guideline 203	ECHA
Alcohols, C12- 14, eth- oxylated pro- poxylated	68439-51-0	LC50	96 h	0,71 ^{mg} / _l	rainbow trout	-	-
Alcohols, C12- 14, eth- oxylated pro- poxylated	68439-51-0	EC50	48 h	0,85 ^{mg} / _l	daphnia magna	-	-
Alcohols, C12- 14, eth- oxylated pro- poxylated	68439-51-0	EC50	72 h	<10 ^{mg} / _l	algae	-	-
Didecyl- dimethylam- monium chlor- ide	7173-51-5	EC50	48 h	0,029 ^{mg} / _l	daphnia magna	OECD Guideline 202	ECHA

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Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
Didecyl- dimethylam- monium chlor- ide	7173-51-5	LC50	96 h	0,49 ^{mg} / _l	zebra fish (Danio rerio)	OECD Guideline 203	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	ErC50	72 h	0,062 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA

Aquatic toxicity (chronic)

Toxic to aquatic life with long lasting effects.

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	LC50	28 d	94 ^{µg} / _l	fathead min- now (Pimephales promelas)	EPA OPP 72-4	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	EC50	3 h	7,75 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	EC50	30 min	11 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	NOEC	72 h	<-1,2 ^{µg} / _I	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	NOEC	21 d	≥4,15 ^{µg} / _I	daphnia magna	EPA OPP 72-4	ЕСНА

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Name of sub- stance	CAS No	Endpoint	Expos- ure time	Value	Species	Method	Source
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	NOEC	28 d	>32,2 ^{µg} /	fathead min- now (Pimephales promelas)	EPA OPP 72-4	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	NOEC	3 h	1,6 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	LOEC	72 h	0,003 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	LOEC	21 d	0,025 ^{mg} / _l	daphnia magna	OECD Guideline 211	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	growth (Eb- Cx) 10%	72 h	0,002 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	growth (Eb- Cx) 10%	30 min	4 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	growth (Eb- Cx) 20%	30 min	5 ^{mg} / _l	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	growth (Eb- Cx) 80%	30 min	24 ^{mg} / _i	activated sludge of a pre- dominantly do- mestic sewage	OECD Guideline 209	ECHA

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Name of sub-	CAS No	Endpoint	Expos-	Value	Species	Method	Source
stance			ure time				
quaternary am- monium com- pounds, benzyl- C12-16-al- kyldimethyl, chlorides	68424-85-1	growth rate (ErCx) 10%	72 h	0,003 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
2-(2-butoxyeth- oxy)ethanol	112-34-5	NOEC	96 h	≥100 ^{mg} / _l	algae (Desmod- esmus sub- spicatus)	OECD Guideline 201	ЕСНА
2-(2-butoxyeth- oxy)ethanol	112-34-5	growth (Eb- Cx) 10%	30 min	>1.995 ^{mg} / _l	Bacteria (activ- ated sludge)	OECD Guideline 209	ЕСНА
propan-2-ol	67-63-0	NOELR	28 d	>1.000 ^{mg} / _l	fish	Qsar	ECHA
propan-2-ol	67-63-0	NOELR	21 d	>1.000 ^{mg} / _l	daphnia magna	Qsar	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	EC50	21 d	0,031 ^{mg} / _l	daphnia magna	OECD Guideline 211	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	NOEC	72 h	0,013 ^{mg} / _l	algae (pseudokirch- neriella subcap- itata)	OECD Guideline 201	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	NOEC	21 d	0,021 ^{mg} / _l	daphnia magna	OECD Guideline 211	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	LOEC	21 d	0,047 ^{mg} / _l	daphnia magna	OECD Guideline 211	ECHA

12.2 Persistence and degradability

Biodegradation

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl,	68424-85-1	oxygen deple- tion	63 %	28 d	OECD Guideline 301 D	ECHA

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Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
chlorides						
quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	68424-85-1	carbon diox- ide generation	95,5 %	28 d	OECD Guideline 301 B	ECHA
2-(2-but- oxyethoxy)eth anol	112-34-5	oxygen deple- tion	85 %	28 d	OECD Guideline 301 C	ECHA
propan-2-ol	67-63-0	oxygen deple- tion	53 %	5 d	EU method C.5	ECHA
N-(3-aminop- ropyl)-N-do- decylpropane- 1,3-diamine	2372-82-9	oxygen deple- tion	68 %	28 d	OECD Guideline 306	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	oxygen deple- tion	69 %	28 d	OECD 301D	ECHA
Didecyl- dimethylam- monium chlor- ide	7173-51-5	carbon diox- ide generation	71 %	28 d	-	ECHA

Persistence

No data available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
quaternary ammonium compounds, benzyl-C12-16- alkyldimethyl, chlorides	68424-85-1	79	0,004 (20 °C)
2-(2-butoxyethoxy)ethanol	112-34-5	-	1 (pH value: 7, 20 °C)
propan-2-ol	67-63-0	-	0,05 (20 °C)
N-(3-aminopropyl)-N-do- decylpropane-1,3-diamine	2372-82-9	3,16	4,46 (20 °C)
Didecyldimethylammoni- um chloride	7173-51-5	-	2,59 (pH value: 7, 20 °C)

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12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 3

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN UN1903

IMDG-Code UN1903

ICAO-TI UN1903

14.2 UN proper shipping name

ADR/RID/ADN DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

IMDG-Code DISINFECTANT, LIQUID, CORROSIVE, N.O.S.

ICAO-TI Disinfectant, liquid, corrosive, n.o.s.

Technical name (hazardous ingredients) benzalkonium chloride

14.3 Transport hazard class(es)

ADR/RID/ADN 8

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IMDG-Code 8

ICAO-TI 8

14.4 Packing group

ADR/RID/ADN II

IMDG-Code II

ICAO-TI II

14.5 Environmental hazards hazardous to the aquatic environment

Environmentally hazardous substance (aquatic benzalkonium chloride

environment)

14.6 Special precautions for user -

14.7 Maritime transport in bulk according to IMO -

instruments

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Particulars in the transport document UN1903, DISINFECTANT, LIQUID, CORROSIVE,

N.O.S., (benzalkonium chloride), 8, II, (E), environ-

mentally hazardous

Classification code C9

Danger label(s) 8, fish and tree



Environmental hazards yes

(hazardous to the aquatic environment)

Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC)

Hazard identification No 80

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) Additional information

Number of cones/blue lights 0

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International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant yes

(hazardous to the aquatic environment)

(benzalkonium chloride)

Danger label(s) 8, fish and tree



Special provisions (SP) 274

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

EmS F-A, S-B

Stowage category B

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

Environmental hazards yes

(hazardous to the aquatic environment)

Danger label(s) 8



Special provisions (SP) A3

Excepted quantities (EQ) E2

Limited quantities (LQ) 0,5 L

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

Name	Name acc. to inventory	CAS No	Restriction
Big extra AF	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
2-(2-butoxyethoxy)ethanol	2-(2-butoxyethoxy)ethanol (DEGBE)	112-34-5	R55
2-(2-butoxyethoxy)ethanol	substances in tattoo inks and perman- ent make-up	-	R75
propan-2-ol	flammable / pyrophoric	-	R40

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Name	Name acc. to inventory	CAS No	Restriction
propan-2-ol	substances in tattoo inks and perman- ent make-up	-	R75

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.
- 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 Community 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'.

Germany: en

Legend

- 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";
- (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";

Legend

(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

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)								
No	Dangerous substance/hazard categories Qualifying quantity (tonnes) for the application of lower and upper-tier requirements							
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100	200	56)				

Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

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Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

Chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure'). Not all ingredients are listed.

Name of substance	CAS No	Type of registration	Re- marks	Category / subcategory	Use limita- tion
Didecyldimethylammonium chloride	7173-51-5	Annex I - part 1	-	p(1)	р

Legend

part 1

b Use limitation: ban (for the sub-category or sub-categories concerned) according to Union legislation

p(1) Sub-category: p(1) - pesticide in the group of plant protection products

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK

(water hazard class) - classification acc. to annex 1 (AwSV)

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass con- centration	Nota- tion
5.2.5	organic substances	class I	5 – < 10 wt%	0,1 ^{kg} / _h	20 ^{mg} / _{m³}	3)
5.2.5	organic substances	-	10 – < 25 wt%	0,5 ^{kg} / _h	50 ^{mg} / _{m³}	3)

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

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Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 8 A

(combustible corrosive materials (except only corrosive to metals))

Other information

Observe employment restrictions for young people according to § 22 JArbSchG. Observe occupational restrictions for mothers acc. to § 11 MuSchG!

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)
3.2	-	Hazardous ingredients: change in the listing (table)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC	
Acute Tox.	Acute toxicity	
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)	
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)	
AGW	Workplace exposure limit	
Aquatic Acute	Hazardous to the aquatic environment - acute hazard	
Aquatic Chron- ic	Hazardous to the aquatic environment - chronic hazard	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
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	
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim	

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Abbr.	Descriptions of used abbreviations	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EbC50	≡ 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	
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)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
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	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	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	
IOELV	Indicative occupational exposure limit value	
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	
LGK	Lagerklasse (storage class according to TRGS 510, Germany)	
LOEC	Lowest Observed Effect Concentration	
log KOW	n-Octanol/water	

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Abbr.	Descriptions of used abbreviations	
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	
NOEC	No Observed Effect Concentration	
NOELR	No Observed Effect Loading Rate	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
STEL	Short-term exposure limit	
STOT RE	Specific target organ toxicity - repeated exposure	
STOT SE	Specific target organ toxicity - single exposure	
SVHC	Substance of Very High Concern	
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)	
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)	
TRGS 903	Biologische Grenzwerte (TRGS 903)	
TWA	Time-weighted average	
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).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

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

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

Code	Text	
H225	Highly flammable liquid and vapour.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

Responsible for the safety data sheet

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Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.

This safety data sheet is for information only and does not comply with the official language requirements of article 31 (5) of REACH.

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