

Safety Data Sheet

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

Autoshampoo SPEZIAL

Version number: 3.0
Replaces version of: 16.09.2021 (2)

Revision: 27.04.2022
First version: 16.03.2021

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

1.1 Product identifier

Trade name	<u>Autoshampoo SPEZIAL</u>
Registration number (REACH)	Not relevant (mixture)
CAS number	not relevant (mixture)
Unique formula identifier (UFI)	-

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

Relevant identified uses	Cleaning agent
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1.3 Details of the supplier of the safety data sheet

PUDOL Chemie GmbH & Co. KG Bahnhofstr. 2 57520 Niederdreisbach Germany	Telephone: ++49 (0) 2743 - 9212-0 Telefax: ++49 (0) 2743 - 9212-71 e-mail: info@pudol.de Website: www.pudol.de
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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 PUDOL Chemie GmbH & Co. KG.

National contact ++49 (0) 2743 - 9212-0

1.4 Emergency telephone number

Poison centre		
Country	Name	Telephone
Germany	Giftnotruf Mainz Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen	+49 (0) 6131-19240

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 category	Hazard statement
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16

2.2 Label elements

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

Signal word danger

Pictograms

GHS05



Hazard statements

H318 Causes serious eye damage.

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous ingredients for labelling

isotridecanol, ethoxylated amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) 1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Additional labelling requirements

see section 15 of the safety data sheet

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2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

Description of the mixture

Hazardous ingredients				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
isotridecanol, ethoxylated	CAS No 9043-30-5	5 – < 10	Acute Tox. 4 / H302 Eye Dam. 1 / H318	-
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	CAS No 147170-44-3 EC No 931-333-8 REACH Reg. No 01-2119489410-39-xxxx	3 – < 5	Eye Dam. 1 / H318 Aquatic Chronic 3 / H412	-
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	EC No 931-329-6 REACH Reg. No 01-2119490100-53-xxxx	2 – < 2,5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Chronic 2 / H411	-
2-butoxyethanol	CAS No 111-76-2 EC No 203-905-0 Index No 603-014-00-0	1 – < 2	Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	GHS-HC IOELV
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	CAS No 1335202-95-3 EC No 931-216-1 REACH Reg. No 01-2119472309-33	1 – < 2	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319	-

Notes

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

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Notes

HC: 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

Name of substance	Specific Conc. Limits	ATE	Exposure route
isotridecanol, ethoxylated	-	500 mg/kg	oral
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 4 % ≤ C < 10 %	-	-
2-butoxyethanol	-	1.200 mg/kg 11 mg/l/4h	oral inhalation: vapour
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	Skin Irrit. 2; H315: C ≥ 28 % Eye Irrit. 2; H319: C ≥ 28 %	-	-

for full text of H-phrases: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Self-protection of the first aider.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air.

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

Following skin contact

Wash with plenty of soap and water.

Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

Notes for the doctor

None.

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4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

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 (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

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

use suitable breathing apparatus

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.

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.

6.3 Methods and material for containment and cleaning up

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

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

Do not mix different cleaners.

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Specific notes/details

None.

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

None.

Incompatible substances or mixtures

Incompatible materials: see section 10.

Protect against external exposure, such as

frost

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Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

General rule

Keep locked up and out of the reach of children.

Ventilation requirements

Provision of sufficient ventilation.

Specific designs for storage rooms or vessels

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

Packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
DE	2-butoxyethanol	111-76-2	AGW	10	49	20	98	H, Y	TRGS 900
EU	2-butoxyethanol	111-76-2	IOELV	20	98	50	246	H	2000/39/EC

Notation

- H absorbed through the skin
- STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless 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)
- 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

Biological limit values							
Country	Name of agent	Parameter	Notation	Identifier	Value	Material	Source
DE	2-butoxyethanol	2-butoxyacetic acid	hydr, crea	BAT	150 mg/l	urine	DFG
DE	2-butoxyethanol	2-butoxyacetic acid	hydr, crea	BLV	150 mg/l	urine	TRGS 903

Notation

- crea creatinine
- hydr hydrolysis

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	DNEL	44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	DNEL	12,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	DNEL	73,4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	DNEL	4,16 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-butoxyethanol	111-76-2	DNEL	98 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	DNEL	44 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	DNEL	312,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	0,013 mg/l	freshwater
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	0,001 mg/l	marine water
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	3.000 mg/l	sewage treatment plant (STP)
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	14,8 mg/kg	freshwater sediment
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	1,48 mg/kg	marine sediment
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	PNEC	0,8 mg/kg	soil
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	0,007 mg/l	freshwater
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	0,001 mg/l	marine water
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	830 mg/l	sewage treatment plant (STP)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	0,195 mg/kg	freshwater sediment
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	0,019 mg/kg	marine sediment

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	PNEC	0,035 mg/kg	soil
2-butoxyethanol	111-76-2	PNEC	8,8 mg/l	freshwater
2-butoxyethanol	111-76-2	PNEC	0,88 mg/l	marine water
2-butoxyethanol	111-76-2	PNEC	463 mg/l	sewage treatment plant (STP)
2-butoxyethanol	111-76-2	PNEC	34,6 mg/kg	freshwater sediment
2-butoxyethanol	111-76-2	PNEC	3,46 mg/kg	marine sediment
2-butoxyethanol	111-76-2	PNEC	2,33 mg/kg	soil
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	0,002 mg/l	freshwater
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	0 mg/l	marine water
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	2,96 mg/l	sewage treatment plant (STP)
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	0,58 mg/kg	freshwater sediment
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	0,058 mg/kg	marine sediment
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	PNEC	0,115 mg/kg	soil

8.2 Exposure controls

Appropriate engineering controls

Use local and general ventilation.

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Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
IIR: isobutene-isoprene (butyl) rubber	no information available	no information available

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-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

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	not determined
Boiling point or initial boiling point and boiling range	not determined
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

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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	~1 g/cm ³ at 20 °C
Relative vapour density	this information 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	there is no additional information

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

No known hazardous reactions.

10.4 Conditions to avoid

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

10.5 Incompatible materials

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.

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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.

Acute toxicity of components of the mixture

Name of substance	CAS No	EC No	Exposure route	Endpoint	Value	Species
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	oral	LD50	2.335 mg/kg	rat
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	dermal	LD0	>2.000 mg/kg	rat
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	oral	LD50	>2.000 mg/kg	rat
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	dermal	LD50	>2.000 mg/kg	rabbit
2-butoxyethanol	111-76-2	203-905-0	dermal	LD0	>2.000 mg/kg	guinea pig
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	931-216-1	oral	LD0	>2.000 mg/kg	rat
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	931-216-1	dermal	LD0	>2.000 mg/kg	rat

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients are listed.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Test data are not available for the complete mixture.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	EC No	Endpoint	Exposure time	Value	Species
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	LC50	96 h	1,11 mg/l	fathead minnow (Pimephales promelas)
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	EC50	48 h	1,9 mg/l	daphnia magna
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	LC50	96 h	2,4 mg/l	rainbow trout (Oncorhynchus mykiss)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	EC50	48 h	3,2 mg/l	daphnia magna
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	EC50	72 h	6.000 mg/l	activated sludge (Pseudomonas putida)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	EbC50	72 h	23,4 mg/l	algae (Desmodesmus subspicatus)

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Name of substance	CAS No	EC No	Endpoint	Exposure time	Value	Species
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	ErC50	24 h	18,6 mg/l	algae (Desmodesmus subspicatus)
2-butoxyethanol	111-76-2	203-905-0	LC50	96 h	1.474 mg/l	rainbow trout (Oncorhynchus mykiss)
2-butoxyethanol	111-76-2	203-905-0	ErC50	72 h	>1.000 mg/l	algae (pseudokirchneriella subcapitata)
2-butoxyethanol	111-76-2	203-905-0	EC50	48 h	1.550 mg/l	daphnia magna
2-butoxyethanol	111-76-2	203-905-0	EbC50	72 h	623 mg/l	algae (Desmodesmus subspicatus)
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	931-216-1	EC50	48 h	2,23 mg/l	daphnia magna

Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	EC No	Endpoint	Exposure time	Value	Species
isotridecanol, ethoxylated	9043-30-5	-	NOEC	21 d	2,48 – 3,76 mg/l	daphnia magna
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	NOEC	37 d	0,135 mg/l	rainbow trout (Oncorhynchus mykiss)

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Name of substance	CAS No	EC No	Endpoint	Exposure time	Value	Species
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	LOEC	37 d	0,405 mg/l	rainbow trout (Oncorhynchus mykiss)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	NOEC	21 d	0,07 mg/l	daphnia magna
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	NOEC	28 d	0,32 mg/l	rainbow trout (Oncorhynchus mykiss)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	NOEC	3 d	2 mg/l	algae (Desmodium subspicatus)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	LOEC	21 d	0,24 mg/l	daphnia magna
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	LOEC	28 d	1 mg/l	rainbow trout (Oncorhynchus mykiss)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	931-329-6	growth rate (ErCx) 10%	72 h	0,83 g/l	activated sludge (Pseudomonas putida)
2-butoxyethanol	111-76-2	203-905-0	EC50	21 d	297 mg/l	daphnia magna
2-butoxyethanol	111-76-2	203-905-0	NOEC	72 h	62,5 mg/l	algae (pseudokirchneriella subcapitata)
2-butoxyethanol	111-76-2	203-905-0	NOEC	21 d	100 mg/l	daphnia magna
2-butoxyethanol	111-76-2	203-905-0	growth (EbCx) 10%	21 d	134 mg/l	daphnia magna

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Name of substance	CAS No	EC No	Endpoint	Exposure time	Value	Species
2-butoxyethanol	111-76-2	203-905-0	growth (EbCx) 10%	72 h	308 mg/l	algae (pseudokirchneriella subcapitata)
2-butoxyethanol	111-76-2	203-905-0	growth rate (ErCx) 10%	72 h	679 mg/l	algae (pseudokirchneriella subcapitata)
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quat-ernized	1335202-95-3	931-216-1	EC50	30 min	60 mg/l	activated sludge (Pseudomonas putida)
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quat-ernized	1335202-95-3	931-216-1	growth (EbCx) 10%	30 min	29,6 mg/l	activated sludge (Pseudomonas putida)

12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	EC No	Process	Degradation rate	Time
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	carbon dioxide generation	87,2 %	28 d
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	931-333-8	DOC removal	80 %	62 d
2-butoxyethanol	111-76-2	203-905-0	carbon dioxide generation	90,4 %	28 d

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Name of substance	CAS No	EC No	Process	Degradation rate	Time
fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	1335202-95-3	931-216-1	carbon dioxide generation	116 %	28 d

Biodegradation

Test data are not available for the complete mixture.

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
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	147170-44-3	3	4,44 (20 °C)
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	-	65,36	1,35 – 4,84 (pH value: 5,5, 20 °C)
2-butoxyethanol	111-76-2	-	0,81 (pH value: 7, 25 °C)

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

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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	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

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
Autoshampoo SPEZIAL	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	-	R3
isotridecanol, ethoxylated	substances in tattoo inks and permanent make-up	-	R75
amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	substances in tattoo inks and permanent make-up	-	R75
2-butoxyethanol	substances in tattoo inks and permanent 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.;

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";

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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

Not assigned.

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

None of the ingredients are listed.

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

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Regulation on detergents

Labelling of contents	
Constituents	Weight % content (or range)
non-ionic surfactants	5 % or over but less than 15 %
cationic surfactants amphoteric surfactants	less than 5 %
perfumes preservation agents (PHENOXYETHANOL, SODIUM BENZOATE, 2-BUTYL-1,2-BENZOTHAZOL-3-ONE, LAURYLAMINE DIPROPYLENEDIAMINE)	-

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)

None of the ingredients are listed.

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 1
(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 concentration	Notation
5.2.5	organic substances	-	10 – < 25 wt%	0,5 kg/h	50 mg/m ³	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)

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

Storage class (LGK) 12
(non-combustible liquids)

Other information

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

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UN Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances

Name of substance	CAS No	Listed in	HS code
piperonal	120-57-0	Table I	2932.93

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/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 concerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
Aquatic Chronic	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
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
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)

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Abbr.	Descriptions of used abbreviations
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HS	Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
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
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
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern

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Abbr.	Descriptions of used abbreviations
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).

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

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.