

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



TAWIP vioSwitch

WM 0716156

Order number: 0716156

Version 10.0

Revision Date 31.07.2026

Print Date 01.08.2026

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

1.1 Product identifier

Trade name : TAWIP vioSwitch
UFI : 6WP7-W0K9-8006-YF4C

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

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642526
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin irritation, Category 2 H315: Causes skin irritation.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statements : P102 Keep out of reach of children.
Prevention:
P260 Do not breathe spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face

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protection.

Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P332 + P313 If skin irritation occurs: Get medical advice/attention.

Safety data sheet available on request.

Classification in use concentration

5ml/4L; 5ml/0,75L; Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14, ethoxylated (7 EO)	68439-50-9 500-213-3	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1 specific concentration limit Eye Dam. 1; H318 > 10 % Eye Irrit. 2; H319 > 1 - 10 %	>= 5 - < 10
Alcohols, C10-16, ethoxylated propoxylated	69227-22-1 614-942-0	Eye Dam. 1; H318 Acute Tox. 4; H302	>= 5 - < 10

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		specific concentration limit Eye Irrit. 2; H319 1 - 10,0 % Eye Dam. 1; H318 > 10,0 %	
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 specific concentration limit Eye Irrit. 2; H319 >= 50 %	>= 5 - < 10

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

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Advice on protection against fire and explosion : Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Vapors may form explosive mixtures with air.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store in cool place. Store at room temperature in the original container. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage stability : No decomposition if stored and applied as directed. Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Fatty acids, C12-18 and C18-unsatd.	Workers	Skin contact		10 mg/kg
	Workers	Inhalation		17,632 mg/m3
2,2',2''-nitrilotriethanol	Workers	Skin contact	Long-term systemic effects	6,3 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3,1 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1,25 mg/m3
	Consumers	Ingestion	Long-term systemic effects	13 mg/kg
	Workers	Inhalation	Long-term local effects	5 mg/m3
	Consumers	Inhalation	Long-term local effects	1,25 mg/m3
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3

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	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,2',2''-nitrilotriethanol	Fresh water	0,32 mg/l
	Sea water	0,032 mg/l
	Fresh water sediment	1,7 mg/kg
	Sea sediment	0,17 mg/kg
	Soil	0,151 mg/kg
	intermittent release	5,12 mg/l
ethanol	Soil	10 mg/l
	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
	STP	580 mg/l
	intermittent release	2,75 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:

Tightly fitting safety goggles

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Hand protection

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : green

Odor : sweet

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : Not classified as supporting combustion according to the transport regulations.

Lower explosion limit : Lower explosion limit at 53,0 °C

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Method: ISO 2719

Upper explosion limit	: No data available
Flash point	: 46,5 °C
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 7,8, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Vapor pressure	: No data available
Density	: ca. 0,999 g/cm ³ at 20 °C
Relative density	: No data available
Relative vapor density	: No data available
Particle characteristics	: No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

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10.6 Hazardous decomposition products

No hazardous decomposition products are known.
No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Alcohols, C12-14, ethoxylated (7 EO)

68439-50-9:

Acute oral toxicity : LD50 Oral (Rat): 300 - 2.000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Alcohols, C10-16, ethoxylated propoxylated

69227-22-1:

Acute oral toxicity : LD50 Oral: 1.800 mg/kg

ethanol

64-17-5:

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg
Method: OECD Test Guideline 401
LD50 (Rat): 5.000 mg/kg
Method: OECD Test Guideline 401
Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h
Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
LD50 Dermal (Rabbit): > 10.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

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Components:

Alcohols, C10-16, ethoxylated propoxylated

69227-22-1:

Method	:	OECD Test Guideline 404
Result	:	Mild skin irritation
Remarks	:	According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

ethanol

64-17-5:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Product:

Remarks	:	May cause irreversible eye damage. Causes serious eye irritation.
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Components:

Alcohols, C10-16, ethoxylated propoxylated

69227-22-1:

Method	:	OECD Test Guideline 405
Result	:	Risk of serious damage to eyes.

ethanol

64-17-5:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Mild eye irritation

Respiratory or skin sensitization

Product:

Remarks	:	No data available
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Components:

ethanol

64-17-5:

Result	:	Not a skin sensitizer.
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Germ cell mutagenicity

Germ cell mutagenicity	:	Not Rated
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Components:

Alcohols, C12-14, ethoxylated (7 EO)

68439-50-9:

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Genotoxicity in vitro	: Test Type: Ames test Result: negative
Carcinogenicity	: Not Rated
Reproductive toxicity	: Not Rated
STOT-single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT-repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

ethanol

64-17-5:

Species	: Rat, male
NOAEL	: > 20 mg/kg
Method	: OECD Test Guideline 403

Species	: Rat, female
NOAEL	: 1.730 mg/kg
Method	: OECD Test Guideline 408

Aspiration toxicity	: Not Rated
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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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Further information

Product:

Remarks	: Solvents may degrease the skin.
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SECTION 12: Ecological information

12.1 Toxicity

Components:

Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14. ethoxylated

68439-50-9:

Toxicity to fish	: LC50 (Cyprinus carpio (Carp)): > 1 - 10 mg/l Exposure time: 96 h
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	Test Type: flow-through test Method: OECD Test Guideline 203
	LC50 (Fish): > 1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 1 - 10 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
	EC10 (Desmodesmus subspicatus (green algae)): 0,1 - 1 mg/l Exposure time: 72 h Test Type: static test
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to microorganisms	: EC50 (Bacteria): 140 mg/l
Toxicity to soil dwelling organisms	: 220 mg/kg Species: Eisenia fetida (earthworms)
Plant toxicity	: 10 mg/l Species: Lepidium sativum (cress) Method: see user defined free text

Alcohols, C10-16, ethoxylated propoxylated

69227-22-1:

Toxicity to fish	: LC50 (Brachydanio rerio): > 1 - 10 mg/l Test Type: semi-static test Method: ISO 7346/2
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Acartia tonsa): > 1 - 10 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Scenedesmus subspicatus): > 1 - 10 mg/l Exposure time: 72 h
	EC10 (Scenedesmus subspicatus): > 1 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC0 (Pseudomonas putida): > 100 mg/l Exposure time: 30 min Method: OECD Test Guideline 209

ethanol

64-17-5:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 13 g/l Exposure time: 96 h Method: OECD Test Guideline 203
	LC50 (Leuciscus idus (Golden orfe)): 8.150 mg/l Exposure time: 48 h

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	LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l Exposure time: 96 h
	LC50 (Fish): 11.200 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 12.340 mg/l Exposure time: 48 h EC50 : 5.012 mg/l
Toxicity to algae/aquatic plants	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 EC50 (Scenedesmus capricornutum (fresh water algae)): 12.900 mg/l Exposure time: 48 h Test Type: Growth inhibition Method: No information available. EC0 (Scenedesmus quadricauda (Green algae)): 5.000 mg/l Exposure time: 168 h EC50 : 4.432 mg/l EC10 : 11,5 mg/l EC10 : 280 mg/l
Toxicity to microorganisms	: EC50 (Pseudomonas putida): 11.800 mg/l Exposure time: 16 h Test Type: Cell multiplication inhibition test

12.2 Persistence and degradability

Product:

Biodegradability	: Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.
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Components:

Alcohols, C12-14, ethoxylated (7 EO), Alcohols, C12-14. ethoxylated

68439-50-9:

Biodegradability	: Result: Readily biodegradable. Biodegradation: > 70 % Exposure time: 28 d Method: OECD 301 A Result: rapidly biodegradable Biodegradation: > 60 % Exposure time: 28 d Method: OECD 301 B
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Alcohols, C10-16, ethoxylated propoxylated

69227-22-1:

Biodegradability	: Remarks: Readily biodegradable, according to appropriate OECD test.
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The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

ethanol

64-17-5:

Biodegradability

: Result: Readily biodegradable.
Biodegradation: 97 %
Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Components:

ethanol

64-17-5:

Bioaccumulation

: Concentration: 3,2 mg/l

Partition coefficient: n-octanol/water

: log Pow: -0,32

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Offer surplus and non-recyclable solutions to a licensed disposal company.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or

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	used container. In accordance with local and national regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.
Waste Code	European Waste Catalog 20 01 29* According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.4 Packing group

ADR
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.5 Environmental hazards

ADR
Not dangerous goods
IMDG
Not regulated as a dangerous good
IATA
Not dangerous goods

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 122-99-6
78-93-3
111-42-2
78-70-6
See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in gaseous form: Not applicable
: Carcinogenic substance: Not applicable
: Quartz fine dust PM4: Not applicable
: Formaldehyde: Not applicable
: fibers: Not applicable
: Germ cell mutagens: Not applicable
: Substances toxic to reproduction: Not applicable
: Poorly degradable, easily enrichable and highly toxic organic substances: Not applicable
: Organic Substances: : portionClass 1: 6 %

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: 5,86 %

according to Detergents Regulation EC 648/2004 : 5 - <15% non-ionic surfactants, perfumes, PHENOXYETHANOL

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapor.
H302 : Harmful if swallowed.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H412 : Harmful to aquatic life with long lasting effects.

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Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Irrit. 2	H319
Skin Irrit. 2	H315

Classification procedure:

On basis of test data.
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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according to Regulation (EC) No. 1907/2006, as amended



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