

# SAFETY DATA SHEET

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



## BRILLANT ULTRA 2X5L

WM 1115943

Order number: 0715943

Version 3.3

Revision Date 10.09.2026

Print Date 12.09.2026

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

#### 1.1 Product identifier

Trade name : BRILLANT ULTRA 2X5L  
UFI : 13H6-S0FY-U00W-604P

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

Use of the Substance/Mixture : Rinse aid  
  
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.

#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : P102 Keep out of reach of children.  
**Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face 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.

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P337 + P313

If eye irritation persists: Get medical advice/  
attention.

**Disposal:**

P501

Dispose of container into the collection of  
recyclables only when it is completely empty.

Safety data sheet available on request.

### 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.<br>EC-No.<br>Index-No.<br>Registration number    | Classification                                                                             | Concentration<br>(% w/w) |
|--------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|
| Fatty alcohol alkoxylate | 111905-53-4                                              | Eye Irrit. 2; H319<br>Acute Tox. 4; H302<br>Aquatic Chronic 3;<br>H412                     | $\geq 15 - < 20$         |
| propan-2-ol              | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous<br>system) | $\geq 5 - < 10$          |
| Citric acid              | 77-92-9<br>201-069-1<br>607-750-00-3<br>01-2119457026-42 | STOT SE 3; H335<br>Eye Irrit. 2; H319                                                      | $\geq 3 - < 5$           |

## 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.

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- 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 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 : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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### 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 : Neutralize with chalk, alkali solution or ammonia.  
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.

Advice on protection against fire and explosion : 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.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Rinse aid

## 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 |
|----------------|---------|--------------------|--------------------------|-------|
|                |         |                    |                          |       |

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|             |           |              |                            |                  |
|-------------|-----------|--------------|----------------------------|------------------|
| isopropanol | Workers   | Skin contact | Long-term systemic effects | 888 mg/kg bw/day |
|             | Workers   | Inhalation   | Long-term systemic effects | 500 mg/m3        |
|             | Consumers | Skin contact | Long-term systemic effects | 319 mg/kg bw/day |
|             | Consumers | Ingestion    | Long-term systemic effects | 26 mg/kg bw/day  |
|             | Consumers | Inhalation   | Long-term systemic effects | 89 mg/m3         |

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

| Substance name           | Environmental Compartment | Value                       |
|--------------------------|---------------------------|-----------------------------|
| isopropanol              | Fresh water               | 140,9 mg/l                  |
|                          | Sea water                 | 140,9 mg/l                  |
|                          | Fresh water sediment      | 552 mg/kg dry weight (d.w.) |
|                          | Soil                      | 28 mg/kg                    |
|                          | intermittent release      | 140,9 mg/l                  |
|                          | STP                       | 2251 mg/l                   |
|                          | Oral                      | 160 mg/kg                   |
| Citric acid, citric acid | Fresh water               | 0,44 mg/l                   |
|                          | Sea water                 | 0,044 mg/l                  |
|                          | STP                       | > 1000 mg/l                 |
|                          | Fresh water sediment      | 34,6 mg/kg                  |
|                          | Sea sediment              | 3,46 mg/kg                  |
|                          | Soil                      | 33,1 mg/kg                  |

### 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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state** : liquid

**Color** : red

**Odor** : alcohol-like

**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 37,0 °C  
Method: ISO 2719

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|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Upper explosion limit                      | : No data available                    |
| Flash point                                | : 40 °C                                |
| Ignition temperature                       | : No data available                    |
| Decomposition temperature                  | : No data available                    |
| pH                                         | : ca. 2,1, 100 %<br>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-<br>octanol/water | : No data available                    |
| Vapor pressure                             | : No data available                    |
| Density                                    | : ca. 1,010 g/cm <sup>3</sup> 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.

### 10.4 Conditions to avoid

Conditions to avoid : Heat.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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### 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:

#### Fatty alcohol alkoxylate

##### **111905-53-4:**

Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg

#### propan-2-ol

##### **67-63-0:**

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral (Rat): 4.570 mg/kg

LD50 Oral (Rat): 5.045 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 47,5 mg/l  
Exposure time: 8 h  
Method: OECD Test Guideline 403

LC50 (Rat): 72,6 mg/l  
Exposure time: 4 h

LC50 (Mouse): 27,2 mg/l  
Exposure time: 4 h

LC50 (Rat): 25 mg/l  
Exposure time: 6 h  
Method: OECD Test Guideline 403

LC50 (Rat): 30 mg/l  
Exposure time: 4 h

LC50 (Rat, male and female): 10000 ppm  
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 12.874 mg/kg  
Method: OECD Test Guideline 402

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LD50 Dermal (Rabbit): 13.900 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.400 mg/kg

### Citric acid

#### 77-92-9:

Acute oral toxicity : LD50 Oral (Mouse): 5.400 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Components:

##### propan-2-ol

#### 67-63-0:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : Causes serious eye irritation.

#### Components:

##### propan-2-ol

#### 67-63-0:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : irritating

### Citric acid

#### 77-92-9:

Result : Eye irritation

### Respiratory or skin sensitization

#### Product:

Remarks : No data available

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### Components:

#### propan-2-ol

##### 67-63-0:

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

#### Citric acid

##### 77-92-9:

Result : Does not cause skin sensitization.

#### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

#### propan-2-ol

##### 67-63-0:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

#### STOT-single exposure

STOT-single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Components:

#### Citric acid

##### 77-92-9:

Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

STOT-repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Repeated dose toxicity

### Components:

#### Citric acid

##### 77-92-9:

Species : Rat  
NOAEL : 4.000 mg/kg  
LOAEL : 8.000 mg/kg

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Application Route : Oral  
Exposure time : 10 d  
Aspiration toxicity : Not Rated

### 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.

#### Further information

##### Product:

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Fatty alcohol alkoxylate

###### 111905-53-4:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 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

Toxicity to microorganisms : EC10 (activated sludge): > 1.000 mg/l

##### isopropanol

###### 67-63-0:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l  
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13.299 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 9.714 mg/l

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Exposure time: 24 h  
Method: OECD Test Guideline 202

EC50 (*Daphnia magna* (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no

(*Daphnia*): > 10.000 mg/l  
Method: OECD Test Guideline 202

NOEC (*Daphnia magna* (Water flea)): 30 mg/l  
Exposure time: 21 d

EC50 (*Daphnia magna* (Water flea)): 10.000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (*Desmodesmus subspicatus* (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

EC50 (*Pseudokirchneriella subcapitata* (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
GLP: no

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): > 1.000 mg/l  
Exposure time: 72 h

EC50 (*Scenedesmus subspicatus*): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to microorganisms : EC50 (*Aliivibrio fischeri*): 17.700 mg/l  
Exposure time: 5 min

EC10 (*Pseudomonas putida*): 5.175 mg/l  
Exposure time: 18 h  
Method: DIN 38412

### Citric acid, citric acid

#### 77-92-9:

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 440 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 1.535 mg/l  
Exposure time: 24 h  
Test Type: static test

EC50 (*Daphnia magna* (Water flea)): ca. 120 mg/l  
Exposure time: 72 h

Toxicity to algae/aquatic plants : NOEC (*Scenedesmus quadricauda* (Green algae)): 425 mg/l  
Exposure time: 8 Days  
Test Type: static test

Toxicity to microorganisms : (*Pseudomonas putida*): > 10.000 mg/l  
Exposure time: 16 h

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### 12.2 Persistence and degradability

#### Components:

##### Fatty alcohol alkoxylate

###### 111905-53-4:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD 301 F

##### isopropanol

###### 67-63-0:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 95 %  
Exposure time: 21 d  
Method: OECD 301 E

Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 53 %  
Exposure time: 5 d

Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 10 d  
GLP: no

Biodegradation: 99,9 %  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

##### Citric acid, citric acid

###### 77-92-9:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD 301 B

Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 19 d  
Method: OECD 301 E

Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

ThOD : 0,75 g/g

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### 12.3 Bioaccumulative potential

#### Components:

##### isopropanol

###### 67-63-0:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05 (25 °C)

##### Citric acid, citric acid

###### 77-92-9:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: -1,72

### 12.4 Mobility in soil

#### Components:

##### isopropanol

###### 67-63-0:

Distribution among environmental compartments : Koc: 25  
Remarks: Highly mobile in soils

### 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.

#### Components:

##### Fatty alcohol alkoxylate

###### 111905-53-4:

Assessment : Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher..  
Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

##### isopropanol

###### 67-63-0:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

##### Citric acid, citric acid

###### 77-92-9:

Assessment : Not persistent, bioaccumulative, and toxic (PBT).. Not very persistent and very bioaccumulative (vPvB).

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to

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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.

### Components:

#### **111905-53-4:**

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.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or 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.

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.

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## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

#### **ADR**

Not dangerous goods

#### **RID**

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

#### **RID**

Not dangerous goods

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### IMDG

Not dangerous goods

### IATA

Not dangerous goods

#### 14.4 Packing group

##### ADR

Not dangerous goods

##### RID

Not dangerous goods

##### IMDG

Not dangerous goods

##### IATA

Not dangerous goods

#### 14.5 Environmental hazards

##### ADR

Not dangerous goods

##### RID

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.

### SECTION 15: Regulatory information

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

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

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

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 vapor or gaseous form: : portionClass 3: < 0,01 %  
: Organic Substances: : portionClass 1: 4,04 %  
: Carcinogenic substances: Not applicable  
: mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

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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: 8,5 %

according to Detergents Regulation EC 648/2004 : 15 - <30% non-ionic surfactants

### 15.2 Chemical Safety Assessment

#### SECTION 16: Other information

##### Full text of H-Statements

H225 : Highly flammable liquid and vapor.  
H302 : Harmful if swallowed.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H412 : Harmful to aquatic life with long lasting effects.

##### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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

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### Further information

#### Classification of the mixture:

Eye Irrit. 2

H319

#### Classification procedure:

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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