



## Safety Data Sheet according to Regulation (EC) No 1907/2006

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SDS No. : 648469

V001.0

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Replaces version from: -

**WC Frisch Delicate Magnolia**

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

#### 1.1. Product identifier

WC Frisch Delicate Magnolia rosa

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

Intended use:

total WC care

#### 1.3. Details of the supplier of the safety data sheet

Henkel & Cie. AG, Pratteln

Salinenstrasse 61

CH-4133 Pratteln

Phone: ++41-(0)61-825 7000

Fax-no.: ++41-(0)61-825 7434

#### 1.4. Emergency telephone number

Tox Info Suisse (24h / 7d): +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Eye Irrit. 2

H319 Causes serious eye irritation.

Skin Irrit. 2

H315 Causes skin irritation.

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



##### Signal word:

Warning

##### Hazard statement:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.

**2.3. Other hazards**

None if used properly.

**SECTION 3: Composition/information on ingredients****3.1. Substances****3.2. Mixtures****Hazardous substances according to CLP (EC) No 1272/2008:**

| Hazardous substances<br>CAS-No.                                                        | EINECS    | REACH-Reg No. | Content       | Classification                                                                                                                                         |
|----------------------------------------------------------------------------------------|-----------|---------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3              | 270-115-0 |               | >= 20- < 25 % | Acute toxicity 4; Oral<br>H302<br>Skin irritation 2<br>H315<br>Serious eye damage 1<br>H318<br>Chronic hazards to the aquatic<br>environment 3<br>H412 |
| Sulfonic acids, C14-16-alkane hydroxy and<br>C14-16-alkene, sodium salts<br>68439-57-6 |           |               | >= 10- < 20 % | Skin irritation 2; Dermal<br>H315<br>Serious eye damage 1<br>H318                                                                                      |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                           |           |               | >= 5- < 10 %  | Serious eye irritation 2<br>H319                                                                                                                       |
| Sodium carbonate<br>497-19-8                                                           | 207-838-8 |               | >= 1- < 5 %   | Serious eye irritation 2<br>H319                                                                                                                       |

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information:**

In case of adverse health effects seek medical advice.

**Inhalation:**

Move to fresh air. In case of breathing difficulties seek immediate medical advice.

**Skin contact:**

Rinse with water. Take off all clothing contaminated by the product.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Do not induce vomiting, seek medical advice immediately.

Rinse mouth with water, (only if the person is conscious).

**4.2. Most important symptoms and effects, both acute and delayed**

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

**4.3. Indication of any immediate medical attention and special treatment needed**

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

**Extinguishing media which must not be used for safety reasons:**

None

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

**5.3. Advice for firefighters**

Use personal protective equipment and self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Ensure adequate ventilation.

If large amounts are released contact the fire service.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Remove mechanically. Rinse away residue with plenty of water.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No special measures required if used properly.

**Hygiene measures:**

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

**7.2. Conditions for safe storage, including any incompatibilities**

Store dry at between +5 and +40°C.

Consider national regulations.

**7.3. Specific end use(s)**

total WC care

**SECTION 8: Exposure controls/personal protection**

Only relevant for professional/industrial use

**8.1. Control parameters**

Valid for

Switzerland

Contains no components with occupational exposure limit values.

**8.2. Exposure controls**

Respiratory protection:

Not needed.

Hand protection:

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Wear tight fitting goggles.

Skin protection:

Protective clothing against chemicals. Observe manufacturer's instructions.

**SECTION 9: Physical and chemical properties**

**The following data apply to the whole mixture.**

|                                                                 |                                    |
|-----------------------------------------------------------------|------------------------------------|
| a) Appearance                                                   | pearls<br>hard<br>pink<br>floral   |
| b) Odor                                                         |                                    |
| c) Odour threshold                                              | No data available / Not applicable |
| d) pH<br>(20 °C (68 °F); Conc.: 1 % product; Solvent:<br>Water) | 9,9 - 10,3                         |
| e) Melting point                                                | No data available / Not applicable |
| f) Initial boiling point and boiling range                      | No data available / Not applicable |
| g) Flash point                                                  | Not applicable                     |
| h) Evaporation rate                                             | No data available / Not applicable |
| i) Flammability (solid , gas)                                   | No data available / Not applicable |
| j) Upper / lower flammability or explosive limits               | No data available / Not applicable |
| k) Vapour pressure                                              | No data available / Not applicable |
| l) Vapor density                                                | No data available / Not applicable |
| m) Relative density                                             | No data available / Not applicable |

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| n) Solubility (ies)                       | soluble in water                   |
| o) Partition coefficient: n-octanol/water | No data available / Not applicable |
| p) Auto-ignition temperature              | No data available / Not applicable |
| q) Decomposition temperature              | No data available / Not applicable |
| r) Viscosity                              | No data available / Not applicable |
| s) Explosive properties                   | No data available / Not applicable |
| t) Oxidising properties                   | No data available / Not applicable |

**9.2. Other information**

Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

None if used for intended purpose.

**10.2. Chemical stability**

Stable under normal conditions of temperature and pressure.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value          | Species | Method                                   |
|---------------------------------------------------------------------------------------------|---------------|----------------|---------|------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | LD50          | 1.080 mg/kg    | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LD50          | 2.079 mg/kg    | rat     | not specified                            |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | LD50          | > 10.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Sodium carbonate<br>497-19-8                                                                | LD50          | 2.800 mg/kg    | rat     | not specified                            |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value                   | Species | Method                                                  |
|---------------------------------------------------------------------------------------------|---------------|-------------------------|---------|---------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | LD50          | > 2.000 mg/kg           | rat     | OECD Guideline 402 (Acute Dermal Toxicity)              |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LD50          | 6.300 - 13.500<br>mg/kg | rabbit  | not specified                                           |
| Sodium carbonate<br>497-19-8                                                                | LD50          | > 2.000 mg/kg           | rabbit  | EPA 16 CFR 1500.40 (Method of testing toxic substances) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value     | Test atmosphere | Exposure<br>time | Species | Method        |
|---------------------------------------------------------------------------------------------|---------------|-----------|-----------------|------------------|---------|---------------|
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LC50          | > 52 mg/l | vapour          | 4 h              | rat     | not specified |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result                   | Exposure<br>time | Species | Method                                                   |
|---------------------------------------------------------------------------------------------|--------------------------|------------------|---------|----------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | Category 2<br>(irritant) | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | irritating               |                  | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | not irritating           | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sodium carbonate<br>497-19-8                                                                | not irritating           | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 437 and an OECD 438 Test with a similar mixture.

| Hazardous substances<br>CAS-No.                                                             | Result                                                | Exposure<br>time | Species | Method                                                |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|---------|-------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | Category 1<br>(irreversible<br>effects on the<br>eye) | 30 s             | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | highly<br>irritating                                  |                  | rabbit  | not specified                                         |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | irritating                                            |                  | rabbit  | not specified                                         |
| Sodium carbonate<br>497-19-8                                                                | irritating                                            |                  | rabbit  | not specified                                         |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result          | Test type                       | Species    | Method                                  |
|---------------------------------------------------------------------------------------------|-----------------|---------------------------------|------------|-----------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | not sensitising | Guinea pig maximisation<br>test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | not sensitising | Guinea pig maximisation<br>test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | not sensitising | Buehler test                    | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                   |
|---------------------------------------------------------------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | EU Method B.13/14<br>(Mutagenicity)                                      |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | in vitro mammalian<br>chromosome<br>aberration test    | without                                    |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) |                                            |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | negative | in vitro mammalian<br>chromosome<br>aberration test    |                                            |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Sodium carbonate<br>497-19-8                                                                | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with                                       |         | Ames Test                                                                |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | oral: gavage                                           |                                            | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)       |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                              | Result / Value                                                | Test type                     | Route of<br>application | Species | Method                                                                                             |
|------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------|-------------------------|---------|----------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3 | NOAEL P 350 mg/kg<br>NOAEL F1 350 mg/kg<br>NOAEL F2 350 mg/kg | three-<br>generation<br>study | oral: feed              | rat     | not specified                                                                                      |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                             | NOAEL P >= 250 mg/kg<br>NOAEL F1 >= 250 mg/kg                 | Two<br>generation<br>study    | dermal                  | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result / Value     | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                                               |
|---------------------------------------------------------------------------------------------|--------------------|-------------------------|----------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | NOAEL 125 mg/kg    | oral: gavage            | 28 d<br>daily                                | rat     | not specified                                                                                        |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | NOAEL 195 mg/kg    | oral:<br>unspecified    | chronic                                      | rat     | not specified                                                                                        |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | NOAEL 259 mg/kg    | oral:<br>unspecified    | chronic                                      | rat     | not specified                                                                                        |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | NOAEL >= 500 mg/kg | oral: feed              | 90 d<br>daily                                | rat     | equivalent or similar to<br>OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value              | Exposure time | Species                                            | Method                                                                 |
|-------------------------------------------------------------------------------------------|---------------|--------------------|---------------|----------------------------------------------------|------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | > 0,43 - 0,89 mg/l | 28 d          | Salmo gairdneri (new name:<br>Oncorhynchus mykiss) | OECD Guideline 210 (fish<br>early lite stage toxicity test)            |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | LC50          | 1,67 mg/l          | 96 h          | Lepomis macrochirus                                | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | 1 mg/l             | 28 d          | Lepomis macrochirus                                | OECD Guideline 204 (Fish,<br>Prolonged Toxicity Test:<br>14-day Study) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | LC50          | > 3,4 - 4,9 mg/l   | 96 h          | Leuciscus idus                                     | DIN 38412-15                                                           |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | NOEC          | 1,8 mg/l           |               | Pimephales promelas                                | OECD Guideline 210 (fish<br>early lite stage toxicity test)            |
| Alcohol ethoxylate C16-18<br>25EO<br>68439-49-6                                           | LC50          | 3,5 mg/l           | 96 h          | Brachydanio rerio (new name:<br>Danio rerio)       | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |
| Sodium carbonate<br>497-19-8                                                              | LC50          | 300 mg/l           | 96 h          | Lepomis macrochirus                                | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value          | Exposure time | Species          | Method                                                           |
|-------------------------------------------------------------------------------------------|---------------|----------------|---------------|------------------|------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | EC50          | 2,9 mg/l       | 48 h          | Daphnia magna    | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | EC50          | 4,53 mg/l      | 48 h          | Ceriodaphnia sp. | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Alcohol ethoxylate C16-18<br>25EO<br>68439-49-6                                           | EC50          | > 1 - 10 mg/l  | 48 h          | Daphnia magna    | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Sodium carbonate<br>497-19-8                                                              | EC50          | 200 - 227 mg/l | 48 h          | Ceriodaphnia sp. | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value     | Exposure time | Species       | Method                                         |
|-------------------------------------------------------------------------------------------|---------------|-----------|---------------|---------------|------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | 1,18 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | NOEC          | 6,3 mg/l  | 21 h          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                     | Value<br>type | Value      | Exposure time | Species                                                     | Method                                               |
|-------------------------------------------------------------------------------------|---------------|------------|---------------|-------------------------------------------------------------|------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | EC50          | 127,9 mg/l | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | NOEC          | 2,4 mg/l   | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | EC50          | 5,2 mg/l   | 72 h          | Skeletonema costatum                                        | ISO 10253:2006 (Marine algal growth inhibition test) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | NOEC          | 3,2 mg/l   | 72 h          | Skeletonema costatum                                        | ISO 10253:2006 (Marine algal growth inhibition test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC50          | 65 mg/l    | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09                                         |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC10          | > 1 mg/l   | 72 h          | not specified                                               | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Sodium carbonate<br>497-19-8                                                        | EC50          | 137 mg/l   | 5 d           | Nitzschia sp.                                               | OECD Guideline 201 (Alga, Growth Inhibition Test)    |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                     | Value<br>type | Value        | Exposure time | Species          | Method                                                             |
|-------------------------------------------------------------------------------------|---------------|--------------|---------------|------------------|--------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | EC0           | 26 mg/l      | 16 h          |                  | not specified                                                      |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | EC10          | 14 mg/l      | 3 h           | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC0           | > 5.000 mg/l | 3 h           | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Sodium carbonate<br>497-19-8                                                        | EC 50         | 300 mg/l     | 30 min        |                  | not specified                                                      |

#### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.                                                     | Result                   | Test type | Degradability | Exposure time | Method                                                                   |
|-------------------------------------------------------------------------------------|--------------------------|-----------|---------------|---------------|--------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | readily biodegradable    | aerobic   | 85 %          | 29 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)        |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | inherently biodegradable | aerobic   | 88 %          | 28 d          | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | readily biodegradable    | aerobic   | 98 %          | 30 d          | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)        |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | inherently biodegradable | aerobic   | > 80 %        | 28 d          | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | readily biodegradable    | aerobic   | > 60 %        | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)        |

#### 12.3. Bioaccumulative potential

Does not bioaccumulate.

No substance data available.

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No.                                                     | LogPow | Temperature | Method                                |
|-------------------------------------------------------------------------------------|--------|-------------|---------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | 3,32   |             | not specified                         |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | -1,3   | 20 °C       | EU Method A.8 (Partition Coefficient) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.                                                     | PBT / vPvB                                                                                                                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| Sodium carbonate<br>497-19-8                                                        | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |

**12.6. Other adverse effects**

Other adverse effects of this product for the environment are not known to us.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Completely empty containers can be disposed of with the municipal waste.

Waste code

20 01 30: Municipal wastes, separately collected fractions, detergents containing no dangerous substances

**SECTION 14: Transport information****14.1. UN number**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.4. Packing group**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

|          |                        |
|----------|------------------------|
| > 30 %   | anionic surfactants    |
| 5 - 15 % | non-ionic surfactants  |
| contains | Perfumes               |
|          | Linalool               |
|          | Benzyl salicylate      |
|          | Hydroxycitronellal     |
|          | Coumarin               |
|          | Alpha-isomethyl ionone |

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s):

6



## Safety Data Sheet according to Regulation (EC) No 1907/2006

Page 1 of 13

SDS No. : 648469  
V001.0

WC Frisch Delicate Magnolia

Revision: 17.09.2019  
printing date: 03.01.2020  
Replaces version from: -

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

#### **1.1. Product identifier**

WC Frisch Delicate Magnolia hellrosa

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

Intended use:  
total WC care

#### **1.3. Details of the supplier of the safety data sheet**

Henkel & Cie. AG, Pratteln  
Salinenstrasse 61  
CH-4133 Pratteln  
Phone: ++41-(0)61-825 7000  
Fax-no.: ++41-(0)61-825 7434

#### **1.4. Emergency telephone number**

Tox Info Suisse (24h / 7d): +41 44 251 51 51 or 145 (Switzerland and Liechtenstein).

### **SECTION 2: Hazards identification**

#### **2.1. Classification of the substance or mixture**

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

Eye Irrit. 2  
H319 Causes serious eye irritation.  
Skin Irrit. 2  
H315 Causes skin irritation.

#### **2.2. Label elements**

##### **Label elements (CLP):**

##### **Hazard pictogram:**



##### **Signal word:**

Warning

##### **Hazard statement:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.

**2.3. Other hazards**

None if used properly.

### SECTION 3: Composition/information on ingredients

**3.1. Substances****3.2. Mixtures****Hazardous substances according to CLP (EC) No 1272/2008:**

| Hazardous substances<br>CAS-No.                                                        | EINECS    | REACH-Reg No. | Content       | Classification                                                                                                                                         |
|----------------------------------------------------------------------------------------|-----------|---------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3              | 270-115-0 |               | >= 20- < 25 % | Acute toxicity 4; Oral<br>H302<br>Skin irritation 2<br>H315<br>Serious eye damage 1<br>H318<br>Chronic hazards to the aquatic<br>environment 3<br>H412 |
| Sulfonic acids, C14-16-alkane hydroxy and<br>C14-16-alkene, sodium salts<br>68439-57-6 |           |               | >= 10- < 20 % | Skin irritation 2; Dermal<br>H315<br>Serious eye damage 1<br>H318                                                                                      |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                           |           |               | >= 5- < 10 %  | Serious eye irritation 2<br>H319                                                                                                                       |
| Sodium carbonate<br>497-19-8                                                           | 207-838-8 |               | >= 1- < 5 %   | Serious eye irritation 2<br>H319                                                                                                                       |

For full text of the H - Phrases indicated by codes only see Section 16 "Other information".

### SECTION 4: First aid measures

**4.1. Description of first aid measures****General information:**

In case of adverse health effects seek medical advice.

**Inhalation:**

Move to fresh air. In case of breathing difficulties seek immediate medical advice.

**Skin contact:**

Rinse with water. Take off all clothing contaminated by the product.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Do not induce vomiting, seek medical advice immediately.

Rinse mouth with water, (only if the person is conscious).

**4.2. Most important symptoms and effects, both acute and delayed**

After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

After skin contact: Temporary irritation of the skin (redness, swelling, burning).

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes).

After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting. Vomit may get into the lungs causing damage (aspiration).

**4.3. Indication of any immediate medical attention and special treatment needed**

After inhalation: No special action.

After skin contact: No special action.

After eye contact: No special action.

After ingestion: Do not induce vomiting. Single administration of a non-carbonated beverage (water or tea).

After ingestion: In case of ingestion of larger or unknown quantities administer a defoamer (Dimeticon or Simeticon).

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media:

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

**Extinguishing media which must not be used for safety reasons:**

None

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products can be formed by pyrolysis and/or carbon monoxide.

**5.3. Advice for firefighters**

Use personal protective equipment and self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Ensure adequate ventilation.

If large amounts are released contact the fire service.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Remove mechanically. Rinse away residue with plenty of water.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

No special measures required if used properly.

**Hygiene measures:**

Avoid contact with skin and eyes. Remove soiled or soaked clothing immediately. Wash off any contamination that gets onto the skin with plenty of water, skin care.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

**7.2. Conditions for safe storage, including any incompatibilities**

Store dry at between +5 and +40°C.

Consider national regulations.

**7.3. Specific end use(s)**

total WC care

**SECTION 8: Exposure controls/personal protection**

Only relevant for professional/industrial use

**8.1. Control parameters**

Valid for

Switzerland

Contains no components with occupational exposure limit values.

**8.2. Exposure controls**

Respiratory protection:

Not needed.

Hand protection:

For the contact with product protective gloves made from Spezial-Nitril (material thickness > 0.1 mm, break through time > 480 min class 6) are recommended according to EN 374. In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. We recommend to change single-use protective gloves periodical and a hand care plan in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Wear tight fitting goggles.

Skin protection:

Protective clothing against chemicals. Observe manufacturer's instructions.

**SECTION 9: Physical and chemical properties**

The following data apply to the whole mixture.

|                                                   |                                    |
|---------------------------------------------------|------------------------------------|
| a) Appearance                                     | pearls<br>hard<br>light pink       |
| b) Odor                                           | floral                             |
| c) Odour threshold                                | No data available / Not applicable |
| d) pH                                             | 9,9 - 10,3                         |
| e) Melting point                                  | No data available / Not applicable |
| f) Initial boiling point and boiling range        | No data available / Not applicable |
| g) Flash point                                    | Not applicable                     |
| h) Evaporation rate                               | No data available / Not applicable |
| i) Flammability (solid , gas)                     | No data available / Not applicable |
| j) Upper / lower flammability or explosive limits | No data available / Not applicable |
| k) Vapour pressure                                | No data available / Not applicable |
| l) Vapor density                                  | No data available / Not applicable |
| m) Relative density                               | No data available / Not applicable |
| n) Solubility (ies)                               | soluble in water                   |

|                                           |                                    |
|-------------------------------------------|------------------------------------|
| o) Partition coefficient: n-octanol/water | No data available / Not applicable |
| p) Auto-ignition temperature              | No data available / Not applicable |
| q) Decomposition temperature              | No data available / Not applicable |
| r) Viscosity                              | No data available / Not applicable |
| s) Explosive properties                   | No data available / Not applicable |
| t) Oxidising properties                   | No data available / Not applicable |

**9.2. Other information**

Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

None if used for intended purpose.

**10.2. Chemical stability**

Stable under normal conditions of temperature and pressure.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

No decomposition if used according to specifications.

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value          | Species | Method                                   |
|---------------------------------------------------------------------------------------------|---------------|----------------|---------|------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | LD50          | 1.080 mg/kg    | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LD50          | 2.079 mg/kg    | rat     | not specified                            |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | LD50          | > 10.000 mg/kg | rat     | OECD Guideline 401 (Acute Oral Toxicity) |
| Sodium carbonate<br>497-19-8                                                                | LD50          | 2.800 mg/kg    | rat     | not specified                            |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value                   | Species | Method                                                  |
|---------------------------------------------------------------------------------------------|---------------|-------------------------|---------|---------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | LD50          | > 2.000 mg/kg           | rat     | OECD Guideline 402 (Acute Dermal Toxicity)              |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LD50          | 6.300 - 13.500<br>mg/kg | rabbit  | not specified                                           |
| Sodium carbonate<br>497-19-8                                                                | LD50          | > 2.000 mg/kg           | rabbit  | EPA 16 CFR 1500.40 (Method of testing toxic substances) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Value<br>type | Value     | Test atmosphere | Exposure<br>time | Species | Method        |
|---------------------------------------------------------------------------------------------|---------------|-----------|-----------------|------------------|---------|---------------|
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | LC50          | > 52 mg/l | vapour          | 4 h              | rat     | not specified |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result                   | Exposure<br>time | Species | Method                                                   |
|---------------------------------------------------------------------------------------------|--------------------------|------------------|---------|----------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | Category 2<br>(irritant) | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | irritating               |                  | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | not irritating           | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Sodium carbonate<br>497-19-8                                                                | not irritating           | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The product has to be classified as eye irritation category 2 based on experimental data of an OECD 437 and an OECD 438 Test with a similar mixture.

| Hazardous substances<br>CAS-No.                                                             | Result                                                | Exposure<br>time | Species | Method                                                |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------|------------------|---------|-------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | Category 1<br>(irreversible<br>effects on the<br>eye) | 30 s             | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | highly<br>irritating                                  |                  | rabbit  | not specified                                         |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | irritating                                            |                  | rabbit  | not specified                                         |
| Sodium carbonate<br>497-19-8                                                                | irritating                                            |                  | rabbit  | not specified                                         |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result          | Test type                       | Species    | Method                                  |
|---------------------------------------------------------------------------------------------|-----------------|---------------------------------|------------|-----------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | not sensitising | Guinea pig maximisation<br>test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | not sensitising | Guinea pig maximisation<br>test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | not sensitising | Buehler test                    | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                   |
|---------------------------------------------------------------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|--------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | EU Method B.13/14<br>(Mutagenicity)                                      |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | in vitro mammalian<br>chromosome<br>aberration test    | without                                    |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) |                                            |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | negative | in vitro mammalian<br>chromosome<br>aberration test    |                                            |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)              |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Sodium carbonate<br>497-19-8                                                                | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with                                       |         | Ames Test                                                                |
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | negative | oral: gavage                                           |                                            | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)       |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                              | Result / Value                                                | Test type                     | Route of<br>application | Species | Method                                                                                             |
|------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------|-------------------------|---------|----------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3 | NOAEL P 350 mg/kg<br>NOAEL F1 350 mg/kg<br>NOAEL F2 350 mg/kg | three-<br>generation<br>study | oral: feed              | rat     | not specified                                                                                      |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                             | NOAEL P >= 250 mg/kg<br>NOAEL F1 >= 250 mg/kg                 | Two<br>generation<br>study    | dermal                  | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                             | Result / Value     | Route of<br>application | Exposure time /<br>Frequency of<br>treatment | Species | Method                                                                                               |
|---------------------------------------------------------------------------------------------|--------------------|-------------------------|----------------------------------------------|---------|------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid,<br>C10-13-alkyl derivs.,<br>sodium salts<br>68411-30-3                | NOAEL 125 mg/kg    | oral: gavage            | 28 d<br>daily                                | rat     | not specified                                                                                        |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | NOAEL 195 mg/kg    | oral:<br>unspecified    | chronic                                      | rat     | not specified                                                                                        |
| Sulfonic acids, C14-16-<br>alkane hydroxy and C14-<br>16-alkene, sodium salts<br>68439-57-6 | NOAEL 259 mg/kg    | oral:<br>unspecified    | chronic                                      | rat     | not specified                                                                                        |
| Alcohol ethoxylate C16-<br>18 25EO<br>68439-49-6                                            | NOAEL >= 500 mg/kg | oral: feed              | 90 d<br>daily                                | rat     | equivalent or similar to<br>OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value              | Exposure time | Species                                            | Method                                                                 |
|-------------------------------------------------------------------------------------------|---------------|--------------------|---------------|----------------------------------------------------|------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | > 0,43 - 0,89 mg/l | 28 d          | Salmo gairdneri (new name:<br>Oncorhynchus mykiss) | OECD Guideline 210 (fish<br>early lite stage toxicity test)            |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | LC50          | 1,67 mg/l          | 96 h          | Lepomis macrochirus                                | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | 1 mg/l             | 28 d          | Lepomis macrochirus                                | OECD Guideline 204 (Fish,<br>Prolonged Toxicity Test:<br>14-day Study) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | LC50          | > 3,4 - 4,9 mg/l   | 96 h          | Leuciscus idus                                     | DIN 38412-15                                                           |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | NOEC          | 1,8 mg/l           |               | Pimephales promelas                                | OECD Guideline 210 (fish<br>early lite stage toxicity test)            |
| Alcohol ethoxylate C16-18<br>25EO<br>68439-49-6                                           | LC50          | 3,5 mg/l           | 96 h          | Brachydanio rerio (new name:<br>Danio rerio)       | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |
| Sodium carbonate<br>497-19-8                                                              | LC50          | 300 mg/l           | 96 h          | Lepomis macrochirus                                | OECD Guideline 203 (Fish,<br>Acute Toxicity Test)                      |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value          | Exposure time | Species          | Method                                                           |
|-------------------------------------------------------------------------------------------|---------------|----------------|---------------|------------------|------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | EC50          | 2,9 mg/l       | 48 h          | Daphnia magna    | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | EC50          | 4,53 mg/l      | 48 h          | Ceriodaphnia sp. | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Alcohol ethoxylate C16-18<br>25EO<br>68439-49-6                                           | EC50          | > 1 - 10 mg/l  | 48 h          | Daphnia magna    | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |
| Sodium carbonate<br>497-19-8                                                              | EC50          | 200 - 227 mg/l | 48 h          | Ceriodaphnia sp. | OECD Guideline 202<br>(Daphnia sp. Acute<br>Immobilisation Test) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                           | Value<br>type | Value     | Exposure time | Species       | Method                                         |
|-------------------------------------------------------------------------------------------|---------------|-----------|---------------|---------------|------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3                    | NOEC          | 1,18 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |
| Sulfonic acids, C14-16-alkane<br>hydroxy and C14-16-alkene,<br>sodium salts<br>68439-57-6 | NOEC          | 6,3 mg/l  | 21 h          | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                     | Value<br>type | Value      | Exposure time | Species                                                     | Method                                               |
|-------------------------------------------------------------------------------------|---------------|------------|---------------|-------------------------------------------------------------|------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | EC50          | 127,9 mg/l | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | NOEC          | 2,4 mg/l   | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | EC50          | 5,2 mg/l   | 72 h          | Skeletonema costatum                                        | ISO 10253:2006 (Marine algal growth inhibition test) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | NOEC          | 3,2 mg/l   | 72 h          | Skeletonema costatum                                        | ISO 10253:2006 (Marine algal growth inhibition test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC50          | 65 mg/l    | 72 h          | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | DIN 38412-09                                         |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC10          | > 1 mg/l   | 72 h          | not specified                                               | OECD Guideline 201 (Alga, Growth Inhibition Test)    |
| Sodium carbonate<br>497-19-8                                                        | EC50          | 137 mg/l   | 5 d           | Nitzschia sp.                                               | OECD Guideline 201 (Alga, Growth Inhibition Test)    |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                                     | Value<br>type | Value        | Exposure time | Species          | Method                                                             |
|-------------------------------------------------------------------------------------|---------------|--------------|---------------|------------------|--------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | EC0           | 26 mg/l      | 16 h          |                  | not specified                                                      |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | EC10          | 14 mg/l      | 3 h           | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | EC0           | > 5.000 mg/l | 3 h           | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Sodium carbonate<br>497-19-8                                                        | EC 50         | 300 mg/l     | 30 min        |                  | not specified                                                      |

#### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.                                                     | Result                   | Test type | Degradability | Exposure time | Method                                                                   |
|-------------------------------------------------------------------------------------|--------------------------|-----------|---------------|---------------|--------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | readily biodegradable    | aerobic   | 85 %          | 29 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)        |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | inherently biodegradable | aerobic   | 88 %          | 28 d          | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | readily biodegradable    | aerobic   | 98 %          | 30 d          | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)        |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | inherently biodegradable | aerobic   | > 80 %        | 28 d          | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Alcohol ethoxylate C16-18 25EO<br>68439-49-6                                        | readily biodegradable    | aerobic   | > 60 %        | 28 d          | OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)        |

#### 12.3. Bioaccumulative potential

Does not bioaccumulate.

No substance data available.

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No.                                                     | LogPow | Temperature | Method                                |
|-------------------------------------------------------------------------------------|--------|-------------|---------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | 3,32   |             | not specified                         |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | -1,3   | 20 °C       | EU Method A.8 (Partition Coefficient) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.                                                     | PBT / vPvB                                                                                                                      |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts<br>68411-30-3              | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts<br>68439-57-6 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| Sodium carbonate<br>497-19-8                                                        | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |

**12.6. Other adverse effects**

Other adverse effects of this product for the environment are not known to us.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Completely empty containers can be disposed of with the municipal waste.

Waste code

20 01 30: Municipal wastes, separately collected fractions, detergents containing no dangerous substances

**SECTION 14: Transport information****14.1. UN number**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.4. Packing group**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Declaration of ingredients according to Detergent Regulation 648/2004/EC**

|          |                        |
|----------|------------------------|
| > 30 %   | anionic surfactants    |
| 5 - 15 % | non-ionic surfactants  |
| contains | Perfumes               |
|          | Linalool               |
|          | Benzyl salicylate      |
|          | Hydroxycitronellal     |
|          | Coumarin               |
|          | Alpha-isomethyl ionone |

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This Safety Data Sheet contains changes from the previous version in Section(s):

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