

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



DE / EN

## Farbenfreunde Fuchsorange

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 10.07.2025  |
| 4.3     | 10.07.2025     | 6006089     | Date of first issue: 02.10.2019 |

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

#### 1.1 Product identifier

Trade name : Farbenfreunde Fuchsorange

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

Use of the Sub-  
stance/Mixture : Water-borne coatings

Recommended restrictions  
on use : within adequate application - none

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

Company : Alpina Farben GmbH  
Roßdörfer Straße 50  
64372 OBER RAMSTADT

Telephone : +498001238887  
Telefax : +4961547170632

Website : [www.alpina-farben.de](http://www.alpina-farben.de)  
E-mail address Responsible/issuing person : [msds@dr-rmi.com](mailto:msds@dr-rmi.com)

#### 1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Not a hazardous substance or mixture.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

##### Additional Labeling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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### 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.

Keep out of reach of children.

Wear safety goggles.

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water.

Only completely emptied containers should be given for recycling.

Dispose of liquid material residues at the collection point for old paints/varnishes, dispose of dried material residues as construction and demolition waste or as municipal waste or household waste.

If the base paint or a wall paint is toned using a pigment paste or toning paste that does not conform to the requirements of the Blue Angel, the toned paint no longer complies with the criteria for the Blue Angel

For further technical information and advice for allergy sufferers, call +49 (0) 800/1238887.

## 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) |
|------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| titanium dioxide             | 13463-67-7<br>236-675-5<br>01-2119489379-17           |                                                                                                                                                                        | >= 10 - < 20             |
| Silicic acid, potassium salt | 1312-76-1<br>215-199-1<br>01-2119456888-17            | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br><br>specific concentration<br>limit<br>Skin Irrit. 2; H315<br>>= 40 %<br>Eye Irrit. 2; H319<br>>= 40 % | >= 1 - < 10              |

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|                                                                         |                                             |                           |            |
|-------------------------------------------------------------------------|---------------------------------------------|---------------------------|------------|
|                                                                         |                                             | STOT SE 3; H335<br>≥ 75 % |            |
| Substances with a workplace exposure limit :                            |                                             |                           |            |
| Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) | 14807-96-6<br>238-877-9<br>01-2120140278-58 |                           | ≥ 1 - < 10 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice (show the label where possible).  
Move out of dangerous area.  
First aider needs to protect himself.
- If inhaled : Move to fresh air.
- In case of skin contact : Do NOT use solvents or thinners.  
In case of contact, immediately flush skin with soap and plenty of water.
- In case of eye contact : If eye irritation persists: Get medical advice/ attention.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Seek medical advice.  
Clean mouth with water and drink afterwards plenty of water.  
If swallowed, DO NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Do not use a solid water stream as it may scatter and spread

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fire.

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.  
The product itself does not burn.

## SECTION 6: Accidental release measures

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

Personal precautions : Use protective shoes or boots with rough rubber sole.  
Material can create slippery conditions.  
Do not get in eyes, on skin, or on clothing.

### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.  
, For personal protection see section 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
No special technical protective measures required.

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Hygiene measures : Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Perishable if frozen. To maintain product quality, do not store in heat or direct sunlight. Store at room temperature in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.

Storage class (TRGS 510) : 12

### 7.3 Specific end use(s)

Specific use(s) : This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                                                                                                                                                                                                                                        | CAS-No.    | Value type (Form of exposure)            | Control parameters                        | Basis       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|-------------------------------------------|-------------|
| titanium dioxide                                                                                                                                                                                                                                                  | 13463-67-7 | MAK (measured as the alveolate fraction) | 0,3 mg/m <sup>3</sup>                     | DE DFG MAK  |
| Peak-limit category: 8; II                                                                                                                                                                                                                                        |            |                                          |                                           |             |
| Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed |            |                                          |                                           |             |
|                                                                                                                                                                                                                                                                   |            | AGW (Inhalable fraction)                 | 10 mg/m <sup>3</sup> (Titanium dioxide)   | DE TRGS 900 |
| Peak-limit category: 2;(II)                                                                                                                                                                                                                                       |            |                                          |                                           |             |
| Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                                                                                                                          |            |                                          |                                           |             |
|                                                                                                                                                                                                                                                                   |            | AGW (Alveolate fraction)                 | 1,25 mg/m <sup>3</sup> (Titanium dioxide) | DE TRGS 900 |
| Peak-limit category: 2;(II)                                                                                                                                                                                                                                       |            |                                          |                                           |             |
| Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child                                                                                                                          |            |                                          |                                           |             |
|                                                                                                                                                                                                                                                                   |            | BM (Alveolar dust fraction)              | 0,5 mg/m <sup>3</sup>                     | DE TRGS 527 |
| Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )                                                                                                                                                                                           | 14807-96-6 | AGW (Inhalable fraction)                 | 10 mg/m <sup>3</sup>                      | DE TRGS 900 |

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|  |                                                                                                                                          |                          |                        |             |
|--|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|-------------|
|  | Peak-limit category: 2;(II)                                                                                                              |                          |                        |             |
|  | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                          |                        |             |
|  |                                                                                                                                          | AGW (Alveolate fraction) | 1,25 mg/m <sup>3</sup> | DE TRGS 900 |
|  | Peak-limit category: 2;(II)                                                                                                              |                          |                        |             |
|  | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                          |                        |             |

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

| Substance name                                                       | End Use   | Routes of exposure | Potential health effects   | Value                   |
|----------------------------------------------------------------------|-----------|--------------------|----------------------------|-------------------------|
| titanium dioxide                                                     | Consumers | Ingestion          | Long-term systemic effects | 700,00 mg/kg bw/day     |
|                                                                      | Workers   | Inhalation         | Long-term local effects    | 10,00 mg/m <sup>3</sup> |
| Kaolin, calcined                                                     | Workers   | Inhalation         | Acute systemic effects     | 3,00 mg/m <sup>3</sup>  |
|                                                                      | Workers   | Inhalation         | Acute local effects        | 3,00 mg/m <sup>3</sup>  |
|                                                                      | Workers   | Inhalation         | Long-term systemic effects | 3,00 mg/m <sup>3</sup>  |
|                                                                      | Workers   | Inhalation         | Long-term local effects    | 3,00 mg/m <sup>3</sup>  |
| 2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide | Consumers | Ingestion          | Long-term systemic effects | 25,00 mg/kg bw/day      |
|                                                                      | Consumers | Skin contact       | Long-term systemic effects | 25,00 mg/kg bw/day      |
|                                                                      | Workers   | Inhalation         | Long-term systemic effects | 49,00 mg/m <sup>3</sup> |
|                                                                      | Workers   | Inhalation         | Long-term local effects    | 3,00 mg/m <sup>3</sup>  |
|                                                                      | Workers   | Skin contact       | Long-term systemic effects | 42,00 mg/kg bw/day      |
| Silicic acid, potassium salt                                         | Consumers | Inhalation         | Long-term systemic effects | 1,38 mg/m <sup>3</sup>  |
|                                                                      | Consumers | Ingestion          | Long-term systemic effects | 0,74 mg/kg bw/day       |
|                                                                      | Consumers | Skin contact       | Long-term systemic effects | 0,74 mg/kg bw/day       |
|                                                                      | Workers   | Inhalation         | Long-term systemic effects | 5,61 mg/m <sup>3</sup>  |
|                                                                      | Workers   | Skin contact       | Long-term systemic effects | 1,49 mg/kg bw/day       |

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

| Substance name   | Environmental Compartment | Value         |
|------------------|---------------------------|---------------|
| titanium dioxide | Sewage treatment plant    | 100 mg/l      |
|                  | Fresh water               | 0,184 mg/l    |
|                  | Soil                      | 100 mg/kg dry |

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|                              |                          |                              |
|------------------------------|--------------------------|------------------------------|
|                              |                          | weight (d.w.)                |
|                              | Sea water                | 0,0184 mg/l                  |
|                              | Fresh water sediment     | 1000 mg/kg dry weight (d.w.) |
|                              | Sea sediment             | 100 mg/kg dry weight (d.w.)  |
|                              | Intermittent use/release | 0,193 mg/l                   |
| Kaolin, calcined             | Intermittent use/release | 25 mg/l                      |
|                              | Fresh water              | 4,1 mg/l                     |
|                              | Sea water                | 0,41 mg/l                    |
|                              | Sewage treatment plant   | 1400 mg/l                    |
| Silicic acid, potassium salt | Sea water                | 1 mg/l                       |
|                              | Intermittent use/release | 7,5 mg/l                     |
|                              | Fresh water              | 7,5 mg/l                     |
|                              | Sewage treatment plant   | 348 mg/l                     |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : not required  
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

DGUV Regulation 112-192 - Use of eye and face protection

#### Hand protection

Material : Nitrile rubber  
Glove thickness : 0,2 mm  
Protective index : Class 3

Remarks : Before removing gloves clean them with soap and water.  
Wear suitable gloves tested to EN374.  
DGUV Regulation 112-195 - Use of protective gloves

Skin and body protection : Safety shoes  
Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Respiratory protection : No personal respiratory protective equipment normally required.  
  
When spraying, use face mask with particle filter P2 against spray dust.

DGUV Regulation 112-190 - Use of breathing equipment

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                                  |   |                              |
|--------------------------------------------------|---|------------------------------|
| Physical state                                   | : | liquid                       |
| Color                                            | : | orange                       |
| Odor                                             | : | No data available            |
| Melting point/freezing point                     | : | ca. 0 °C                     |
| Boiling point/boiling range                      | : | ca. 100 °C                   |
| Upper explosion limit / Upper flammability limit | : | not determined               |
| Lower explosion limit / Lower flammability limit | : | not determined               |
| Flash point                                      | : | Not applicable               |
| Autoignition temperature                         | : | not determined               |
| Decomposition temperature                        | : | Not applicable               |
| pH                                               | : | 11,4<br>Concentration: 100 % |
| Viscosity<br>Viscosity, dynamic                  | : | No data available            |
| Solubility(ies)<br>Water solubility              | : | completely miscible          |
| Partition coefficient: n-octanol/water           | : | not determined               |

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Vapor pressure : ca. 23,4 hPa (20 °C)

Density : 1,4200 g/cm<sup>3</sup>

Relative vapor density : not determined

### 9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

Flammability (liquids) : The product is not flammable.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.  
Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

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### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks : Based on OECD test 431 this product is not classified as skin corrosive/skin irritant.  
Information given is based on tests on products of similar composition.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

### STOT-repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Not classified based on available information.

#### Product:

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

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### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

##### Product:

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

#### 12.6 Endocrine disrupting properties

##### Product:

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

#### 12.7 Other adverse effects

##### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

Washing water must not be discharged into the sewage system or the environment.

Contaminated packaging : Only completely emptied containers should be given for recycling.

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Waste Code : used product  
080112, waste paint and varnish other than those mentioned  
in 08 01 11\*

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.2 UN proper shipping name

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.3 Transport hazard class(es)

|      |                                     |
|------|-------------------------------------|
| ADN  | : Not regulated as a dangerous good |
| ADR  | : Not regulated as a dangerous good |
| RID  | : Not regulated as a dangerous good |
| IMDG | : Not regulated as a dangerous good |
| IATA | : Not regulated as a dangerous good |

#### 14.4 Packing group

|                  |                                     |
|------------------|-------------------------------------|
| ADN              | : Not regulated as a dangerous good |
| ADR              | : Not regulated as a dangerous good |
| RID              | : Not regulated as a dangerous good |
| IMDG             | : Not regulated as a dangerous good |
| IATA (Cargo)     | : Not regulated as a dangerous good |
| IATA (Passenger) | : Not regulated as a dangerous good |

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regu-

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lations.

### 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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

2-[(2-methoxy-4-nitrophenyl)azo]-N-(2-methoxyphenyl)-3-oxobutyramide  
(Number on list 75)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) (SVHC) : None

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : None

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

Water hazard class (Germany) : WGK 1 slightly water endangering  
Classification according to AwSV, Annex 1 (5.2)

. : Coating materials, water-based, low preservative content

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: < 0,01 %

Volatile organic compounds : Directive 2004/42/EC

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



DE / EN

## Farbenfreunde Fuchsororange

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 10.07.2025  |
| 4.3     | 10.07.2025     | 6006089     | Date of first issue: 02.10.2019 |

< 0.1 %

< 1 g/l

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                     |
|------|-------------------------------------|
| H315 | : Causes skin irritation.           |
| H319 | : Causes serious eye irritation.    |
| H335 | : May cause respiratory irritation. |

### Full text of other abbreviations

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Eye Irrit.        | : Eye irritation                                          |
| Skin Irrit.       | : Skin irritation                                         |
| STOT SE           | : Specific target organ toxicity - single exposure        |
| DE DFG MAK        | : Germany. MAK BAT Annex IIa                              |
| DE TRGS 527       | : Germany. TRGS 527 - Activities with nanomaterials       |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values. |
| DE DFG MAK / MAK  | : MAK value                                               |
| DE TRGS 527 / BM  | : Assessment scale                                        |
| DE TRGS 900 / AGW | : Time Weighted Average                                   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; 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 Organisation 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, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

|                   |                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information | : No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC. Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC. |
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Sources of key data used to compile the Material Safety Data Sheet :

- ECHA WebSite
- ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH
- NIOSH - Registry of toxic effects of chemical substances
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX'S - Dangerous properties of industrial materials
- GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)
- Toxnet - Toxicology Data Network

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.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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