

## TOP SEAL SV 100

Version number: 1.0

First version: 28.02.2023

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

#### 1.1 Product identifier

|                             |                        |
|-----------------------------|------------------------|
| Trade name                  | <b>TOP SEAL SV 100</b> |
| Registration number (REACH) | Not relevant (mixture) |
| CAS number                  | Not relevant (mixture) |

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

|                          |              |
|--------------------------|--------------|
| Relevant identified uses | Impregnation |
|--------------------------|--------------|

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

|                                   |  |
|-----------------------------------|--|
| PAGEL Spezial-Beton GmbH & Co. KG | Telephone: +49 201/68504-0             |
| Wolfsbankring 9                   | Telefax: +49 201/68504-31              |
| 45355 Essen                       | e-mail: info@pagel.com                 |
| Germany                           | Website: www.pagel.com                 |
| e-mail (competent person)         | schempershofe@pagel.de, labor@pagel.de |

#### 1.4 Emergency telephone number

| Poison centre    |                    |
|------------------|--------------------|
| Name             | Telephone          |
| Giftnotruf Mainz | +49 (0) 6131-19240 |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Classification |                                   |          |                           |                  |
|----------------|-----------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                      | Category | Hazard class and category | Hazard statement |
| 3.2            | skin corrosion/irritation         | 2        | Skin Irrit. 2             | H315             |
| 3.3            | serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

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

**Signal word** warning

### Pictograms

**GHS07**



### Hazard statements

**H315** Causes skin irritation.

**H319** Causes serious eye irritation.

### Precautionary statements

**P101** If medical advice is needed, have product container or label at hand.

**P102** Keep out of reach of children.

**P103** Read carefully and follow all instructions.

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

**P302+P352** IF ON SKIN: Wash with plenty of soap and 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.

**P310** Immediately call a POISON CENTER/doctor.

**P332+P313** If skin irritation occurs: Get medical advice/attention.

**P362+P364** Take off contaminated clothing and wash it before reuse.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### Endocrine disrupting properties

Information on this property is not available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances


Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture

| Hazardous ingredients                  |   |         |   |            |
|--|---|---------|---|------------|
| Name of substance                      | Identifier                                    | Wt%     | Classification acc. to GHS                  | Pictograms |
| silicic acid, potassium salt (MR >2,6) | CAS No<br>1312-76-1<br><br>EC No<br>215-199-1 | 2,5 – 5 | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319 |            |

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| Hazardous ingredients          |  |       |   |   |
|--------------------------------|--|-------|---|---|
| Name of substance              | Identifier   | Wt%   | Classification acc. to GHS                | Pictograms  |
| potassium methylsilanetriolate | CAS No<br>31795-24-1<br><br>EC No<br>250-807-9<br><br>REACH Reg. No<br>01-2119517439-34-<br>xxxx | 1 – 2 | Skin Corr. 1A / H314<br>Eye Dam. 1 / H318 |  |

For full text of H-phrases: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Take off immediately all contaminated clothing.

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

#### Following inhalation

Provide fresh air.

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

#### Following skin contact

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

#### Following eye contact

Rinse cautiously with water for several minutes.

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

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

If eye irritation persists: Get medical advice/attention.

#### Following ingestion

Rinse mouth. Do not induce vomiting.

Get medical advice/attention.

#### Notes for the doctor

None.

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

Irritating to eyes and skin.

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

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings

#### Unsuitable extinguishing media

water jet

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

Hazardous decomposition products: Section 10.

### 5.3 Advice for firefighters

Non-combustible.

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

Use suitable breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Avoid contact with skin and eyes.

Special danger of slipping by leaking/spilling product.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advice on how to clean up a spill

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

## **Appropriate containment techniques**

Use of adsorbent materials.

## **Other information relating to spills and releases**

Place in appropriate containers for disposal.

Ventilate affected area.

## **6.4 Reference to other sections**

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

#### **Specific notes/details**

None.

#### **Handling of incompatible substances or mixtures**

Do not mix with acids.

#### **Measures to protect the environment**

Avoid release to the environment.

#### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

Avoid contact with skin and eyes.

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

#### **Flammability hazards**

None.

#### **Incompatible substances or mixtures**

Incompatible materials: see section 10.

#### **Protect against external exposure, such as**

heat, frost

#### **Consideration of other advice**

Keep away from food, drink and animal feeding stuffs.

#### **Ventilation requirements**

Provision of sufficient ventilation.

## Specific designs for storage rooms or vessels

**Storage temperature** recommended storage temperature: >0 °C

## Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

This information is not available

| Relevant DNELs of components of the mixture |            |           |                        |                                    |                   |                            |
|---|------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No     | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time              |
| silicic acid, potassium salt (MR >2,6)      | 1312-76-1  | DNEL      | 5,61 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| silicic acid, potassium salt (MR >2,6)      | 1312-76-1  | DNEL      | 1,49 mg/kg bw/day      | human, dermal                      | worker (industry) | chronic - systemic effects |
| potassium methylsilanetriolate              | 31795-24-1 | DNEL      | 11,3 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| potassium methylsilanetriolate              | 31795-24-1 | DNEL      | 1,6 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |            |          |                 |                              |
|---|------------|----------|-----------------|------------------------------|
| Name of substance                           | CAS No     | Endpoint | Threshold level | Environmental compartment    |
| silicic acid, potassium salt (MR >2,6)      | 1312-76-1  | PNEC     | 7,5 mg/l        | freshwater                   |
| silicic acid, potassium salt (MR >2,6)      | 1312-76-1  | PNEC     | 1 mg/l          | marine water                 |
| silicic acid, potassium salt (MR >2,6)      | 1312-76-1  | PNEC     | 348 mg/l        | sewage treatment plant (STP) |
| potassium methylsilanetriolate              | 31795-24-1 | PNEC     | 7,1 mg/l        | sewage treatment plant (STP) |
| potassium methylsilanetriolate              | 31795-24-1 | PNEC     | 4,8 mg/kg       | freshwater sediment          |
| potassium methylsilanetriolate              | 31795-24-1 | PNEC     | 0,48 mg/kg      | marine sediment              |
| potassium methylsilanetriolate              | 31795-24-1 | PNEC     | 0,19 mg/kg      | soil                         |

## 8.2 Exposure controls

### Appropriate engineering controls

Use local and general ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection. (EN 166).

#### Hand protection

| Protective gloves         |                          |  |
|---------------------------|--------------------------|--|
| Material                  | Material thickness       | Breakthrough times of the glove material |
| NR: natural rubber, latex | no information available | no information available                 |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

(EN 136, EN 140, EN 14387, EN 143, EN 149).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                                   |
|--|-----------------------------------|
| Physical state   | liquid                            |
| Colour   | transparent                       |
| Odour  | odourless                         |
| Melting point/freezing point                             | not determined                    |
| Boiling point or initial boiling point and boiling range | 100 °C<br>(CAS 7732-18-5)         |
| Flammability   | non-combustible                   |
| Lower and upper explosion limit                          | not determined                    |
| Flash point  | technically impossible to provide |
| Auto-ignition temperature                                | technically impossible to provide |

|  |                                   |
|--|-----------------------------------|
| <b>Decomposition temperature</b>                         | not relevant                      |
| <b>pH (value)</b>  | 11,4                              |
| <b>Kinematic viscosity</b>                               | not determined                    |
| <b>Dynamic viscosity</b>                                 | not determined                    |
| <b>Solubility(ies)</b>                                   |                                   |
| Water solubility   | miscible in any proportion        |
| <b>Partition coefficient n-octanol/water (log value)</b> | not determined                    |
| <b>Vapour pressure</b>                                   | 23 hPa<br>(CAS 7732-18-5)         |
| <b>Density and/or relative density</b>                   |                                   |
| Density  | 1,1 g/cm <sup>3</sup> at 20 °C    |
| Relative vapour density                                  | this information is not available |
| <b>Particle characteristics</b>                          | not relevant<br>(liquid)          |

## 9.2 Other information

|   |  |
|---|--|
| <b>Information with regard to physical hazard classes</b> | hazard classes acc. to GHS (physical hazards):<br>not relevant |
| <b>Other safety characteristics</b>                       | there is no additional information                             |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Strong exothermic reaction with acids.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

acids, metals



**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Classification procedure**

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)****Acute toxicity**

Test data are not available for the complete mixture.

**Acute toxicity of components of the mixture**

| Name of substance                      | CAS No     | Exposure route | End-point | Value        | Species     | Method             | Source |
|--|------------|----------------|-----------|--------------|-------------|--------------------|--------|
| silicic acid, potassium salt (MR >2,6) | 1312-76-1  | oral           | LD0       | >5.000 mg/kg | rat, female | EPA OPPTS 870.1100 | ECHA   |
| silicic acid, potassium salt (MR >2,6) | 1312-76-1  | dermal         | LD0       | >5.000 mg/kg | rat         | EPA OPPTS 870.1200 | ECHA   |
| potassium methylsilanetriolate         | 31795-24-1 | oral           | LD50      | >2.000 mg/kg | rat         | OECD Guideline 423 | ECHA   |

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation****Skin sensitisation**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Respiratory sensitisation**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**Germ cell mutagenicity**

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Reproductive toxicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Information on this property is not available.

## SECTION 12: Ecological information

## 12.1 Toxicity

### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

### Aquatic toxicity (acute) of components of the mixture

| Name of substance                      | CAS No     | Endpoint | Exposure time | Value     | Species                           | Method             | Source |
|--|------------|----------|---------------|-----------|-----------------------------------|--------------------|--------|
| silicic acid, potassium salt (MR >2,6) | 1312-76-1  | LC50     | 48 h          | >146 mg/l | orfe (Leuciscus idus)             | DIN 38412 T.15     | ECHA   |
| silicic acid, potassium salt (MR >2,6) | 1312-76-1  | EC50     | 72 h          | 207 mg/l  | algae (Desmod-esmus sub-spicatus) | DIN 38412 T.9      | ECHA   |
| silicic acid, potassium salt (MR >2,6) | 1312-76-1  | EC50     | 24 h          | >146 mg/l | daphnia magna                     | OECD Guideline 202 | ECHA   |
| potassium methylsilanetri-olate        | 31795-24-1 | LC50     | 96 h          | >500 mg/l | Danio rerio                       | EU method C.1      | ECHA   |

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| Name of substance              | CAS No     | Endpoint | Exposure time | Value     | Species                                 | Method             | Source |
|--------------------------------|------------|----------|---------------|-----------|---|--------------------|--------|
| potassium methylsilanetriolate | 31795-24-1 | EC50     | 72 h          | >120 mg/l | algae (pseudokirchneriella subcapitata) | OECD Guideline 201 | ECHA   |
| potassium methylsilanetriolate | 31795-24-1 | EC50     | 48 h          | >500 mg/l | daphnia magna                           | EU method C.2      | ECHA   |

### Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

### Aquatic toxicity (chronic) of components of the mixture

| Name of substance              | CAS No     | Endpoint | Exposure time | Value    | Species                                 | Method             | Source |
|--------------------------------|------------|----------|---------------|----------|---|--------------------|--------|
| potassium methylsilanetriolate | 31795-24-1 | NOEC     | 21 d          | 100 mg/l | daphnia magna                           | OECD Guideline 211 | ECHA   |
| potassium methylsilanetriolate | 31795-24-1 | NOEC     | 72 h          | 120 mg/l | algae (pseudokirchneriella subcapitata) | OECD Guideline 201 | ECHA   |

## 12.2 Persistence and degradability

### Biodegradation

No data available.

### Degradability of components of the mixture

| Name of substance              | CAS No     | Process        | Degradation rate | Time | Method             | Source |
|--------------------------------|------------|----------------|------------------|------|--------------------|--------|
| potassium methylsilanetriolate | 31795-24-1 | biotic/abiotic | 0 %              | 28 d | OECD Guideline 310 | ECHA   |

### Persistence

No data available.

## 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

## 12.4 Mobility in soil

No data available.

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### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

#### Remarks

None.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

|      |   |              |
|------|---|--------------|
| 14.1 | UN number or ID number                                  | not assigned |
| 14.2 | UN proper shipping name                                 | -            |
| 14.3 | Transport hazard class(es)                              | -            |
| 14.4 | Packing group   | -            |
| 14.5 | Environmental hazards                                   | -            |
| 14.6 | Special precautions for user                            | -            |
| 14.7 | Maritime transport in bulk according to IMO instruments | -            |

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

| Name            | Name acc. to inventory   | Restriction |
|-----------------|--|-------------|
| TOP SEAL SV 100 | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3          |

#### Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and
    - present an aspiration hazard and are labelled with H304.
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
    - (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
    - (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
    - (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

#### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

#### Seveso Directive

Not assigned.

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

None of the ingredients are listed.

#### Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

#### Regulation on drug precursors

None of the ingredients are listed.

## Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

## Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

## Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

## National regulations (Germany)

### Technical instructions on air quality control (Germany)

Not assigned.

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

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

### Other information

Observe employment restrictions for young people according to § 22 JArbSchG.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr.  | Descriptions of used abbreviations  |
|--------|---|
| ADN    | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR    | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)   |
| CAS    | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP    | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| DGR    | Dangerous Goods Regulations (see IATA/DGR)  |
| DNEL   | Derived No-Effect Level   |
| EC50   | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval                                      |
| EC No  | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EINECS | European Inventory of Existing Commercial Chemical Substances   |

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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| ELINCS      | European List of Notified Chemical Substances   |
| Eye Dam.    | Seriously damaging to the eye   |
| Eye Irrit.  | Irritant to the eye   |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA        | International Air Transport Association   |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| IMDG        | International Maritime Dangerous Goods Code   |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008  |
| LC50        | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                       |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval  |
| LGK         | Lagerklasse (storage class according to TRGS 510, Germany)  |
| NLP         | No-Longer Polymer   |
| NOEC        | No Observed Effect Concentration  |
| PBT         | Persistent, Bioaccumulative and Toxic   |
| PNEC        | Predicted No-Effect Concentration   |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| SVHC        | Substance of Very High Concern  |
| TRGS        | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)  |
| vPvB        | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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

| Code | Text                                     |
|------|--|
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H318 | Causes serious eye damage.               |
| H319 | Causes serious eye irritation.           |

## Responsible for the safety data sheet

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## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.

This safety data sheet is for information only and does not comply with the official language requirements of article 31 (5) of REACH.