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

# BYK-UV 3519

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

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | BYK-UV 3519 |
| UFI | : | S75E-00Q4-8001-F25E |
| Product code | : | 000000000000133343 |

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Additive to Improve Mechanical Properties |

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

| | | |
|---|---|---|
| Company | : | BYK-Chemie GmbH<br>Abelstrasse 45<br>46483 Wesel |
| Telephone | : | +49 281 670-0 |
| Telefax | : | +49 281 65735 |
| Information | : | Regulatory Affairs |
| Telephone | : | +49 281 670-23532 |
| Telefax | : | +49 281 670-23533 |
| E-mail address | : | GHS.BYK@altana.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| Europe | +44 1235 239670 |
| Middle East/Africa | +44 1235 239671 |
| Americas | +1 215 207 0061 |
| East/South East Asia | +65 3158 1074 |
| (Local India: 000 800 100 7479) | |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements :

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

**Prevention:**

| | |
|---|---|
| P261 | Avoid breathing mist or vapours. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ eye protection/ face protection. |

**Response:**

| | |
|---|---|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |

**Hazardous components which must be listed on the label:**

- 28961-43-5 Propylidynetrimethanol, ethoxylated, esters with acrylic acid

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Dispersion of surface treated silica nanoparticles

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid | 28961-43-5 | Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Aquatic Chronic 3; H412 | >= 50 - <= 100 |
| 2,6-di-tert-butyl-p-cresol | 128-37-0<br>204-881-4<br>01-2119565113-46 | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>---<br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | >= 0,1 - < 0,25 |
| triethylamine | 121-44-8<br>204-469-4<br>01-2119475467-26 | Flam. Liq. 2; H225<br>Acute Tox. 3; H301<br>Acute Tox. 3; H331<br>Acute Tox. 3; H311<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>---<br>specific concentration limit<br>STOT SE 3; H335<br>>= 1 %<br>---<br>Acute toxicity estimate<br><br>Acute oral toxicity: 100 mg/kg<br>Acute inhalation toxicity (vapour): 7,2 mg/l<br>Acute dermal toxicity: 300 mg/kg | >= 0,1 - < 0,25 |

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms (according to REACH Regulation)

**Components:**

**surface treated silica:**

Particle characteristics

Particle Size Distribution : D50 = 21 nm ± 4 nm
Measurement technique: Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation

Assessment : This substance/ mixture contains nanoforms (according to

REACH Regulation)
based on: Size distribution measurement

Surface treatment /Coatings : Surface treatment /Coatings: yes

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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

Symptoms : No information available.

Risks : May cause an allergic skin reaction.
Causes serious eye irritation.

### 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 : Foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media : High volume water jet

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

| | | |
|---|---|---|
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Carbon oxides<br>Nitrogen oxides (NOx)<br>Oxides of phosphorus<br>Sulphur oxides |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

## SECTION 6: Accidental release measures

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

| | | |
|---|---|---|
| Personal precautions | : | Use personal protective equipment. |

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |

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

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

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national |

regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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

### 7.3 Specific end use(s)

Specific use(s) : No data 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 |
|---|---|---|---|---|
| triethylamine | 121-44-8 | TWA | 2 ppm<br>8,4 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 3 ppm<br>12,6 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| 2,6-di-tert-butyl-p-cresol | Workers | Inhalation | Long-term systemic effects | 1,76 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0,5 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 0,25 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 0,435 mg/m3 |
| | Consumers | Dermal | Long-term systemic | 0,25 mg/kg |

| | | | | |
|---|---|---|---|---|
| | | | effects | |
| triethylamine | Workers | Inhalation | Acute systemic effects | 12,6 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 8,4 mg/m3 |

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

| Substance name | Environmental Compartment | Value |
|---|---|---|
| 2,6-di-tert-butyl-p-cresol | Fresh water | 0,000199 mg/l |
| | Marine water | 0,00002 mg/l |
| | Soil | 0,04769 mg/l |
| | Intermittent releases | 0,00199 mg/l |
| | Fresh water sediment | 0,0996 mg/kg |
| | Marine sediment | 0,00996 mg/kg |
| triethylamine | Soil | 2,361 mg/kg |
| | Fresh water | 0,064 mg/l |
| | Marine water | 0,0064 mg/l |
| | Intermittent releases | 0,064 mg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 0,1992 mg/kg |

### 8.2 Exposure controls

**Personal protective equipment**

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
- Material : Nitrile rubber
- Break through time : > 120 min
- Glove thickness : > 0,5 mm

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

**Environmental exposure controls**

General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : translucent

| | | |
|---|---|---|
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| Melting point/ range | : | -20 °C<br>Method: derived |
| Boiling point/boiling range | : | 391 °C (1.013 hPa)<br>Method: derived |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | 81 °C<br>Method: 49 (Pensky-Martens) |
| Auto-ignition temperature | : | > 200 °C<br>Method: DIN 51 794/ DIN prEN 14 522 |
| Decomposition temperature | : | No data available |
| pH | : | 7 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator |
| Viscosity | | |
| Viscosity, dynamic | : | 1.076 mPa.s (20 °C)<br>Method: P/K 20°C |
| Viscosity, kinematic | : | No data available |
| Solubility(ies) | | |
| Water solubility | : | immiscible |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | 32 hPa (20 °C)<br>Method: derived |
| Relative density | : | No data available |
| Density | : | 1,39 g/cm3 (20 °C, 1.013 hPa)<br>Method: 4 (20°C oscillating U-tube) |

| | | |
|---|---|---|
| Bulk density | : | Not applicable |
| Relative vapour density | : | No data available |
| Particle characteristics | | |
| Assessment | : | This substance/ mixture contains nanoforms (according to REACH Regulation) |
| Particle size | : | Further particle properties for nanomaterials see section 3 |

### 9.2 Other information

No data available

## 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 : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Acids
Bases

### 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 due to lack of data.

**Product:**

Acute oral toxicity : Remarks: No data available

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

| | | |
|---|---|---|
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2.000 mg/kg<br>Method: Calculation method |

**Components:**

**2,6-di-tert-butyl-p-cresol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 6.000 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: yes |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>GLP: yes |

**triethylamine:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: 100 mg/kg<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 |
| Acute inhalation toxicity | : | Acute toxicity estimate: 7,2 mg/l<br>Test atmosphere: vapour<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 |
| Acute dermal toxicity | : | Acute toxicity estimate: 300 mg/kg<br>Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008 |

**Skin corrosion/irritation**

Not classified due to lack of data.

**Product:**

| | | |
|---|---|---|
| Remarks | : | May cause skin irritation and/or dermatitis. |

**Components:**

**triethylamine:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | Corrosive |

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : Causes serious eye irritation.

**Components:**

**triethylamine:**

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

**Respiratory or skin sensitisation**

**Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified due to lack of data.

**Product:**

Remarks : Causes sensitisation.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Carcinogenicity**

Not classified due to lack of data.

**Product:**

Remarks : No data available

**Reproductive toxicity**

Not classified due to lack of data.

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure**

Not classified due to lack of data.

**Product:**

Remarks : No data available

**STOT - repeated exposure**

Not classified due to lack of data.

**Product:**

Remarks : No data available

**Repeated dose toxicity**

**Product:**

Remarks : No data available

**Aspiration toxicity**

Not classified due to lack of data.

**Product:**

No data available

### 11.2 Information on other hazards

**Endocrine disrupting properties**

Not classified due to lack of data.

**Product:**

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

**Further information**

**Product:**

Remarks : No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

**Components:**

**2,6-di-tert-butyl-p-cresol:**

Toxicity to fish : LC50 : 199 mg/l
Exposure time: 96 h

| | | |
|---|---|---|
| Toxicity to algae/aquatic plants | : | EC50 (Desmodesmus subspicatus (green algae)): 0,42 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: Regulation (EC) No. 440/2008, Annex, C.3<br>GLP: yes |
| M-Factor (Acute aquatic toxicity) | : | 1 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

### 12.2 Persistence and degradability

**Product:**

| | | |
|---|---|---|
| Biodegradability | : | Remarks: No data available |

**Components:**

**triethylamine:**

| | | |
|---|---|---|
| Biodegradability | : | Test Type: aerobic<br>Result: Readily biodegradable.<br>Method: OECD Test Guideline 301B<br>GLP: yes |

### 12.3 Bioaccumulative potential

**Product:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: 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.<br>Harmful to aquatic life with long lasting effects. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers. |

## 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**

Not applicable

**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 must be considered::<br>Number on list 3<br><br>Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | | Not applicable |

**15.2 Chemical safety assessment**

Not applicable

## SECTION 16: Other information

Items where relevant changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

**Full text of H-Statements**

| | | |
|---|---|---|
| H225 | : | Highly flammable liquid and vapour. |
| H301 | : | Toxic if swallowed. |
| H311 | : | Toxic in contact with skin. |
| H314 | : | Causes severe skin burns and eye damage. |
| H317 | : | May cause an allergic skin reaction. |
| H318 | : | Causes serious eye damage. |
| H319 | : | Causes serious eye irritation. |
| H331 | : | Toxic if inhaled. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Skin Corr. | : | Skin corrosion |
| Skin Sens. | : | Skin sensitisation |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; BGW - Biological Limit Values; 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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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); LSPN - List of Hazardous Notified Substances (Chile); 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 - Organisation 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**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

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