

# SAFETY DATA SHEET

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



## BYK-300 SG

Version:  
3.0

Revision Date:  
14.03.2025

Date of last issue: 04.12.2024  
Print Date: 05.01.2026

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

#### 1.1 Product identifier

Trade name : BYK-300 SG  
UFI : E138-80W8-E00W-8069  
Product code : 000000000000114167

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

Use of the : Surface Additive  
Substance/Mixture

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

Company : BYK USA LLC  
South Cherry Street 524  
06492 Wallingford  
Telephone :  
Information : BYK USA Regulatory Affairs  
Telephone : +1 203-265-2086  
Telefax :  
E-mail address : BRIEF.BYK.NAFTA@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)

|                                                                                  |                                                                          |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Flammable liquids, Category 3                                                    | H226: Flammable liquid and vapour.                                       |
| Skin irritation, Category 2                                                      | H315: Causes skin irritation.                                            |
| Serious eye damage, Category 1                                                   | H318: Causes serious eye damage.                                         |
| Carcinogenicity, Category 1B                                                     | H350: May cause cancer.                                                  |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation.                                  |
| Specific target organ toxicity - repeated exposure, Category 2                   | H373: May cause damage to organs through prolonged or repeated exposure. |

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Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

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 : Danger

Hazard statements :

|      |                                                                    |
|------|--------------------------------------------------------------------|
| H226 | Flammable liquid and vapour.                                       |
| H304 | May be fatal if swallowed and enters airways.                      |
| H315 | Causes skin irritation.                                            |
| H318 | Causes serious eye damage.                                         |
| H335 | May cause respiratory irritation.                                  |
| H350 | May cause cancer.                                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

Precautionary statements : **Prevention:**

|      |                                                                                                   |
|------|---------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                                           |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.    |
| P260 | Do not breathe mist or vapours.                                                                   |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |

#### **Response:**

|                           |                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P301 + P310               | IF SWALLOWED: Immediately call a POISON CENTER/ doctor.                                                                                                                    |
| P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |
| P308 + P313               | IF exposed or concerned: Get medical advice/ attention.                                                                                                                    |
| P331                      | Do NOT induce vomiting.                                                                                                                                                    |
| P370 + P378               | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.                                                                                       |

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

- 1330-20-7 Xylene, mixture of isomers
- 78-83-1 iso-butanol

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- 98-82-8 cumene

### Additional Labelling

Restricted to professional users.

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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 : Solution of a polyether modified polydimethylsiloxane

#### Components

| Chemical name              | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                                 | Concentration<br>(% w/w) |
|----------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Xylene, mixture of isomers | 1330-20-7<br>01-2119488216-32                         | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 30 - < 50             |
| iso-butanol                | 78-83-1<br>201-148-0<br>01-2119484609-23              | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)                                        | >= 7 - < 10              |
| ethylbenzene               | 100-41-4<br>202-849-4                                 | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>STOT RE 2; H373<br>(hearing organs)<br>Asp. Tox. 1; H304                                                                                           | >= 7 - < 10              |

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|                                   |                                           |                                                                                                                                                                                     |                 |
|-----------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| cumene                            | 98-82-8<br>202-704-5                      | Flam. Liq. 3; H226<br>Carc. 1B; H350<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                                  | >= 0,25 - < 0,5 |
| toluene                           | 108-88-3<br>203-625-9                     | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>Repr. 2; H361d<br>STOT SE 3; H336<br>(Central nervous<br>system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3;<br>H412 | >= 0,1 - < 0,25 |
| octamethylcyclotetrasiloxane [D4] | 556-67-2<br>209-136-7<br>01-2119529238-36 | Repr. 2; H361f<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Chronic<br>aquatic toxicity): 10                                                                                      | >= 0,1 - < 0,25 |
| PBT and vPvB substance :          |                                           |                                                                                                                                                                                     |                 |
| decamethylcyclopentasiloxane      | 541-02-6<br>208-764-9                     |                                                                                                                                                                                     | >= 0,1 - < 0,25 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
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 skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty

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of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
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 induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Symptoms : No information available.

Risks : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause cancer.  
May cause damage to organs through prolonged or repeated exposure.

### 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 : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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  
silicone compounds

### 5.3 Advice for firefighters

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

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Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 6.2 Environmental precautions

Environmental precautions : 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.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 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 : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national

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Advice on protection against fire and explosion : regulations.  
Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

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 : No smoking. 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      |
|----------------------------|----------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------|
| Xylene, mixture of isomers | 1330-20-7                                                                                          | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                            |                                                                                                    | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
| ethylbenzene               | 100-41-4                                                                                           | TWA                           | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                            |                                                                                                    | STEL                          | 200 ppm<br>884 mg/m <sup>3</sup> | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
| cumene                     | 98-82-8                                                                                            | TWA                           | 20 ppm<br>100 mg/m <sup>3</sup>  | 2000/39/EC |
|                            | Further information: Identifies the possibility of significant uptake through the skin, Indicative |                               |                                  |            |
|                            |                                                                                                    | STEL                          | 50 ppm<br>250 mg/m <sup>3</sup>  | 2000/39/EC |

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|         |                                                                                                                                                                      |      |                                  |                  |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------|------------------|
|         | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                   |      |                                  |                  |
|         |                                                                                                                                                                      | TWA  | 10 ppm<br>50 mg/m <sup>3</sup>   | 2019/1831/E<br>U |
|         | Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative |      |                                  |                  |
|         |                                                                                                                                                                      | STEL | 50 ppm<br>250 mg/m <sup>3</sup>  | 2019/1831/E<br>U |
|         | Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative |      |                                  |                  |
| toluene | 108-88-3                                                                                                                                                             | TWA  | 50 ppm<br>192 mg/m <sup>3</sup>  | 2006/15/EC       |
|         | Further information: Indicative, Identifies the possibility of significant uptake through the skin                                                                   |      |                                  |                  |
|         |                                                                                                                                                                      | STEL | 100 ppm<br>384 mg/m <sup>3</sup> | 2006/15/EC       |
|         | Further information: Indicative, Identifies the possibility of significant uptake through the skin                                                                   |      |                                  |                  |

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

| Substance name                    | End Use   | Exposure routes | Potential health effects                                                                         | Value                  |
|-----------------------------------|-----------|-----------------|--------------------------------------------------------------------------------------------------|------------------------|
| Xylene, mixture of isomers        | Workers   | Inhalation      | Long-term systemic effects                                                                       | 221 mg/m <sup>3</sup>  |
|                                   | Workers   | Inhalation      | Acute local effects                                                                              | 442 mg/m <sup>3</sup>  |
|                                   | Workers   | Dermal          | Long-term systemic effects                                                                       | 212 mg/kg              |
|                                   | Consumers | Inhalation      | Long-term systemic effects                                                                       | 65,3 mg/m <sup>3</sup> |
|                                   | Consumers | Dermal          | Long-term systemic effects                                                                       | 125 mg/kg              |
|                                   | Consumers | Oral            | Long-term systemic effects                                                                       | 1,5 mg/kg              |
|                                   | Consumers | Inhalation      | Acute local effects                                                                              | 260 mg/m <sup>3</sup>  |
| iso-butanol                       | Workers   | Inhalation      | Long-term local effects                                                                          | 310 mg/m <sup>3</sup>  |
|                                   | Consumers | Ingestion       | Long-term systemic effects                                                                       | 25 mg/kg               |
|                                   | Consumers | Inhalation      | Long-term local effects                                                                          | 55 mg/m <sup>3</sup>   |
| octamethylcyclotetrasiloxane [D4] | Consumers | Oral            | Acute systemic effects, Long-term systemic effects                                               | 3,7 mg/kg              |
|                                   | Consumers | Inhalation      | Acute systemic effects, Acute local effects, Long-term systemic effects, Long-term local effects | 13 mg/m <sup>3</sup>   |
|                                   | Workers   | Inhalation      | Acute systemic                                                                                   | 73 mg/m <sup>3</sup>   |

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|  |  |  |                                                                                   |  |
|--|--|--|-----------------------------------------------------------------------------------|--|
|  |  |  | effects, Acute local effects, Long-term systemic effects, Long-term local effects |  |
|--|--|--|-----------------------------------------------------------------------------------|--|

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

| Substance name                    | Environmental Compartment                 | Value        |
|-----------------------------------|-------------------------------------------|--------------|
| Xylene, mixture of isomers        | Fresh water                               | 0,327 mg/l   |
|                                   | Marine water                              | 0,327 mg/l   |
|                                   | Fresh water sediment                      | 12,46 mg/kg  |
|                                   | Marine sediment                           | 12,46 mg/kg  |
|                                   | Soil                                      | 2,31 mg/kg   |
|                                   | Sewage treatment plant                    | 6,58 mg/l    |
| iso-butanol                       | Intermittent releases                     | 0,327 mg/l   |
|                                   | Fresh water                               | 0,4 mg/l     |
|                                   | Marine water                              | 0,04 mg/l    |
|                                   | Fresh water sediment                      | 1,56 mg/kg   |
|                                   | Marine sediment                           | 0,156 mg/kg  |
|                                   | Soil                                      | 0,0765 mg/kg |
| octamethylcyclotetrasiloxane [D4] | Sewage treatment plant                    | 10 mg/l      |
|                                   | Intermittent releases                     | 11 mg/l      |
|                                   | Fresh water                               | 1,5 µg/l     |
|                                   | Marine water                              | 0,15 µg/l    |
|                                   | Fresh water sediment                      | 0,64 mg/kg   |
|                                   | Soil                                      | 0,84 mg/kg   |
|                                   | Sewage treatment plant                    | 10 mg/l      |
|                                   | Marine sediment                           | 0,064 mg/kg  |
|                                   | Hazard for predators: secondary poisoning | 41 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 : Fluorinated rubber  
Break through time :  $\geq 480$  min  
Glove thickness : 0,4 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.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

### Environmental exposure controls

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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 : colourless

Odour : aromatic

Odour Threshold : No data available

Melting point/ range : < 0 °C  
Method: derived

Initial boiling point : 106,00 °C  
Method: derived

Upper explosion limit / Upper  
flammability limit : 12,00 %(V)

Lower explosion limit / Lower  
flammability limit : 1,00 %(V)

Flash point : 23,00 °C  
Method: 48 (Abel-Pensky) DIN 51755

Auto-ignition temperature : > 200 °C  
Method: DIN 51 794/ DIN prEN 14 522

Decomposition temperature : No data available

pH : 5 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 12 mm<sup>2</sup>/s (40 °C)

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

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|                                        |   |                                                                                       |
|----------------------------------------|---|---------------------------------------------------------------------------------------|
| Partition coefficient: n-octanol/water | : | No data available                                                                     |
| Vapour pressure                        | : | 9 hPa (20,00 °C)<br>Method: derived                                                   |
| Relative density                       | : | No data available                                                                     |
| Density                                | : | 0,9390 g/cm <sup>3</sup> (20,00 °C, 1.013 hPa)<br>Method: 4 (20°C oscillating U-tube) |
| Relative vapour density                | : | No data available                                                                     |

### 9.2 Other information

|                        |   |                     |
|------------------------|---|---------------------|
| Flammability (liquids) | : | Sustains combustion |
| Evaporation rate       | : | No data available   |

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## 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. |
|                     |   | Vapours may form explosive mixture with air.        |

### 10.4 Conditions to avoid

|                     |   |                          |
|---------------------|---|--------------------------|
| Conditions to avoid | : | Heat, flames and sparks. |
|---------------------|---|--------------------------|

### 10.5 Incompatible materials

|                    |   |                         |
|--------------------|---|-------------------------|
| Materials to avoid | : | Strong oxidizing agents |
|--------------------|---|-------------------------|

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## 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:

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Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

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

### Components:

#### **Xylene, mixture of isomers:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: no

Acute dermal toxicity : LD50 (Rabbit): > 4.200 mg/kg  
GLP: No information available.

#### **iso-butanol:**

Acute oral toxicity : LD50 (Rat, male): > 2.830 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Skin corrosion/irritation**

Causes skin irritation.

### Product:

Remarks : May irritate skin.  
May cause skin irritation in susceptible persons.

### Components:

#### **iso-butanol:**

Species : Rabbit  
Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### Product:

Remarks : May cause irreversible eye damage.

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### Components:

#### **iso-butanol:**

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 405 |
| Result  | : Eye irritation          |
| GLP     | : yes                     |

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified due to lack of data.

##### **Respiratory sensitisation**

Not classified due to lack of data.

### Product:

Remarks : No data available

### Components:

#### **iso-butanol:**

|                 |                                      |
|-----------------|--------------------------------------|
| Test Type       | : Maximisation Test                  |
| Exposure routes | : Dermal                             |
| Species         | : Guinea pig                         |
| Method          | : OECD Test Guideline 406            |
| Result          | : Does not cause skin sensitisation. |

#### **octamethylcyclotetrasiloxane [D4]:**

|         |                                      |
|---------|--------------------------------------|
| Species | : Guinea pig                         |
| Method  | : OECD Test Guideline 406            |
| Result  | : Does not cause skin sensitisation. |
| GLP     | : yes                                |

#### **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**

May cause cancer.

### Product:

Remarks : No data available

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### 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

May cause respiratory irritation.

#### Product:

Remarks : No data available

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Remarks : No data available

Remarks : No data available

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

No data available

### Components:

#### **iso-butanol:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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

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### Further information

#### Product:

Remarks : Solvents may degrease the skin.

## 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:

##### **Xylene, mixture of isomers:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 24 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 2,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,17 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)

NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Daphnia sp. (water flea)

##### **iso-butanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.430 mg/l  
Exposure time: 96 h

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|                                                                        |   |                                                                                                                                         |
|------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia pulex (Water flea)): 1.100 mg/l<br>Exposure time: 48 h<br>Test Type: static test                                          |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.799 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 20 mg/l<br>End point: Reproduction<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test Type: semi-static test   |

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### **Xylene, mixture of isomers:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301F  
GLP: yes

##### **iso-butanol:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### **Xylene, mixture of isomers:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 56 d  
Bioconcentration factor (BCF): 25,9  
GLP: no

Partition coefficient: n-octanol/water : Pow: 3,2 (20 °C)  
pH: 7

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### iso-butanol:

Partition coefficient: n-octanol/water : log Pow: 1  
Method: OECD Test Guideline 117  
GLP: yes

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

#### Components:

##### octamethylcyclotetrasiloxane [D4]:

Assessment : Substance is very persistent and very bioaccumulative (vPvB).  
: Substance is persistent, bioaccumulative, and toxic (PBT).

##### decamethylcyclopentasiloxane:

Assessment : Substance is persistent, bioaccumulative, and toxic (PBT).  
: Substance is very persistent and very bioaccumulative (vPvB).

### 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.  
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

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courses or the soil.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : UN 1993  
IMDG : UN 1993  
IATA : UN 1993

#### 14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.  
(Xylene, Isobutanol)  
IMDG : FLAMMABLE LIQUID, N.O.S.  
(XYLENE, Isobutanol)  
IATA : Flammable liquid, n.o.s.  
(Xylene, Isobutanol)

#### 14.3 Transport hazard class(es)

ADR : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E  
IMDG  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
IATA (Cargo)  
Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

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### IATA (Passenger)

Packing instruction : 355  
(passenger aircraft)  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 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 3  
  
Number on list 5: benzene  
  
Number on list 28: cumene  
  
Number on list 48: toluene  
  
Number on list 70:  
octamethylcyclotetrasiloxane [D4],  
decamethylcyclopentasiloxane  
  
Number on list 72: benzene  
  
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). : octamethylcyclotetrasiloxane [D4]  
decamethylcyclopentasiloxane

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REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Seveso III: Directive 2012/18/EU of the P5c FLAMMABLE LIQUIDS  
European Parliament and of the Council on the  
control of major-accident hazards involving  
dangerous substances.

### 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.                                |
| H226  | : Flammable liquid and vapour.                                       |
| H304  | : May be fatal if swallowed and enters airways.                      |
| H312  | : Harmful in contact with skin.                                      |
| H315  | : Causes skin irritation.                                            |
| H318  | : Causes serious eye damage.                                         |
| H319  | : Causes serious eye irritation.                                     |
| H332  | : Harmful if inhaled.                                                |
| H335  | : May cause respiratory irritation.                                  |
| H336  | : May cause drowsiness or dizziness.                                 |
| H350  | : May cause cancer.                                                  |
| H361d | : Suspected of damaging the unborn child.                            |
| H361f | : Suspected of damaging fertility.                                   |
| H373  | : May cause damage to organs through prolonged or repeated exposure. |
| H410  | : Very toxic to aquatic life with long lasting effects.              |
| H411  | : 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 Chronic | : Long-term (chronic) aquatic hazard                                                                                 |
| Asp. Tox.       | : Aspiration hazard                                                                                                  |
| Carc.           | : Carcinogenicity                                                                                                    |
| Eye Dam.        | : Serious eye damage                                                                                                 |
| Eye Irrit.      | : Eye irritation                                                                                                     |
| Flam. Liq.      | : Flammable liquids                                                                                                  |
| Repr.           | : Reproductive toxicity                                                                                              |
| Skin Irrit.     | : Skin irritation                                                                                                    |
| STOT RE         | : Specific target organ toxicity - repeated exposure                                                                 |
| STOT SE         | : Specific target organ toxicity - single exposure                                                                   |
| 2000/39/EC      | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |

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|                     |   |                                                                                                                      |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------|
| 2006/15/EC          | : | Europe. Indicative occupational exposure limit values                                                                |
| 2019/1831/EU        | : | Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| 2000/39/EC / TWA    | : | Limit Value - eight hours                                                                                            |
| 2000/39/EC / STEL   | : | Short term exposure limit                                                                                            |
| 2006/15/EC / TWA    | : | Limit Value - eight hours                                                                                            |
| 2006/15/EC / STEL   | : | Short term exposure limit                                                                                            |
| 2019/1831/EU / TWA  | : | Limit Value - eight hours                                                                                            |
| 2019/1831/EU / 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; 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

#### Classification of the mixture:

|               |      |
|---------------|------|
| Flam. Liq. 3  | H226 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1    | H318 |
| Carc. 1B      | H350 |
| STOT SE 3     | H335 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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|                   |      |                    |
|-------------------|------|--------------------|
| STOT RE 2         | H373 | Calculation method |
| Asp. Tox. 1       | H304 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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