

# SAFETY DATA SHEET

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



## DISPERBYK-110 SG

Version 3.1  
SDB\_CH

Revision Date: 03.07.2025

Date of last issue: 14.03.2025  
Print Date 05.01.2026

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

#### 1.1 Product identifier

Trade name : DISPERBYK-110 SG  
UFI : RE8A-K0QV-V00C-HYMX  
Product code : 000000000000114214

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

Use of the Substance/Mixture : Wetting & Dispersing Additive

#### 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

+44 1235 239670

### 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 corrosion, Sub-category 1B                                                      | H314: Causes severe skin burns and eye damage.           |
| 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, Central nervous system | H336: May cause drowsiness or dizziness.                 |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system     | H335: May cause respiratory irritation.                  |
| 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)

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|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Signal word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hazard statements        | : | <div><div>H226</div><div>H314</div><div>H335</div><div>H336</div><div>H350</div><div>H412</div></div> <div><div>Flammable liquid and vapour.</div><div>Causes severe skin burns and eye damage.</div><div>May cause respiratory irritation.</div><div>May cause drowsiness or dizziness.</div><div>May cause cancer.</div><div>Harmful to aquatic life with long lasting effects.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Precautionary statements | : | <p><b>Prevention:</b></p> <div><div>P201</div><div>P210</div><div>P280</div></div> <div><div>Obtain special instructions before use.</div><div>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</div><div>Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</div></div> <p><b>Response:</b></p> <div><div>P303 + P361 + P353</div><div>P304 + P340 + P310</div><div>P305 + P351 + P338 + P310</div><div>P308 + P313</div><div>P370 + P378</div></div> <div><div>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</div><div>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</div><div>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.</div><div>IF exposed or concerned: Get medical advice/ attention.</div><div>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</div></div> |

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

- 108-65-6 2-methoxy-1-methylethyl acetate
- 64742-95-6 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
- 7664-38-2 phosphoric acid
- 98-82-8 cumene

### Additional Labelling

Restricted to professional users.

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### 2.3 Other hazards

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : solution of polymeric phosphoric acid ester

#### Components

| Chemical name                                                                     | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                   | Concentration<br>(% w/w) |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Phosphoric acid polyester                                                         | -                                                     | Eye Irrit. 2; H319                                                                                                                                                               | >= 50 - <= 100           |
| 2-methoxy-1-methylethyl acetate                                                   | 108-65-6<br>203-603-9<br>01-2119475791-29             | Flam. Liq. 3; H226<br>STOT SE 3; H336                                                                                                                                            | >= 20 - < 25             |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | 64742-95-6<br>01-2119455851-35                        | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411<br>EUH066        | >= 20 - < 25             |
| phosphoric acid                                                                   | 7664-38-2<br>231-633-2<br>01-2119485924-24            | Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br><br>specific concentration<br>limit<br>Skin Irrit. 2; H315<br>10 - < 25 %<br>Eye Irrit. 2; H319<br>10 - < 25 %<br>Skin Corr. 1B; H314 | >= 1 - < 3               |

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|        |                      |                                                                                                                                    |              |
|--------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------|
|        |                      | >= 25 %                                                                                                                            |              |
| 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 | >= 0,5 - < 1 |

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.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
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 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 : Causes serious eye damage.  
May cause respiratory irritation.

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May cause drowsiness or dizziness.  
May cause cancer.  
Causes severe burns.

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

Treatment : No information available.

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## 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  
Sulphur oxides  
Oxides of phosphorus

### 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.  
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.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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### 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 : Neutralize with chalk, alkali solution or ammonia.  
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  
regulations.

Advice on protection against : Do not spray on a naked flame or any incandescent material.  
fire and explosion : 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 : No smoking. Keep container tightly closed in a dry and well-  
areas and containers : 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.

Store in original container.

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

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### 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      |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6                                                                                                                                                                                                  | TWA                           | 50 ppm<br>275 mg/m <sup>3</sup>  | 2000/39/EC |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                        |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | STEL                          | 100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                        |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | TWA                           | 50 ppm<br>275 mg/m <sup>3</sup>  | CH SUVA    |
|                                 | Further information: Harm to the unborn child is not to be expected when the OEL-value is respected                                                                                                       |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | STEL                          | 50 ppm<br>275 mg/m <sup>3</sup>  | CH SUVA    |
|                                 | Further information: Harm to the unborn child is not to be expected when the OEL-value is respected                                                                                                       |                               |                                  |            |
| phosphoric acid                 | 7664-38-2                                                                                                                                                                                                 | TWA                           | 1 mg/m <sup>3</sup>              | 2000/39/EC |
|                                 | Further information: Indicative                                                                                                                                                                           |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | STEL                          | 2 mg/m <sup>3</sup>              | 2000/39/EC |
|                                 | Further information: Indicative                                                                                                                                                                           |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | TWA (inhalable dust)          | 2 mg/m <sup>3</sup>              | CH SUVA    |
|                                 | Further information: National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | STEL (inhalable dust)         | 4 mg/m <sup>3</sup>              | CH SUVA    |
|                                 | Further information: National Institute for Occupational Safety and Health, Occupational Safety and Health Administration, Harm to the unborn child is not to be expected when the OEL-value is respected |                               |                                  |            |
| 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 |
|                                 | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                                                                                        |                               |                                  |            |
|                                 |                                                                                                                                                                                                           | TWA                           | 20 ppm                           | CH SUVA    |

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|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------------------|
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | 100 mg/m <sup>3</sup>           |                  |
|  | Further information: Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., Carcinogenic Category 3, National Institute for Occupational Safety and Health, National Institute of Research and Safety for the prevention of work accidents and occupational diseases, Harm to the unborn child is not to be expected when the OEL-value is respected |      |                                 |                  |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STEL | 80 ppm<br>400 mg/m <sup>3</sup> | CH SUVA          |
|  | Further information: Toxic by skin resorption possible; Substances, which are easily absorbed through the skin, can give by additional skin resorption a substantial higher risk compared to only inhalation by the airways., Carcinogenic Category 3, National Institute for Occupational Safety and Health, National Institute of Research and Safety for the prevention of work accidents and occupational diseases, Harm to the unborn child is not to be expected when the OEL-value is respected |      |                                 |                  |
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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                                                                                                                                                                                                                                                                                                                                   |      |                                 |                  |

### Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters                                                    | Sampling time                                     | Basis  |
|----------------|---------|-----------------------------------------------------------------------|---------------------------------------------------|--------|
| cumene         | 98-82-8 | 2-phenyl-2-propanol: 20 mg/g creatinine (Urine)                       | Immediately after exposure or after working hours | CH BAT |
|                |         | 2-phenyl-2-propanol: 16.6 micromoles per millimole creatinine (Urine) | Immediately after exposure or after working hours | CH BAT |

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

| Substance name                  | End Use   | Exposure routes | Potential health effects   | Value                 |
|---------------------------------|-----------|-----------------|----------------------------|-----------------------|
| 2-methoxy-1-methylethyl acetate | Workers   | Skin contact    | Long-term systemic effects | 796 mg/kg             |
|                                 | Workers   | Inhalation      | Long-term systemic effects | 275 mg/m <sup>3</sup> |
|                                 | Consumers | Skin contact    | Long-term systemic effects | 320 mg/kg             |
|                                 | Consumers | Inhalation      | Long-term systemic effects | 33 mg/m <sup>3</sup>  |
|                                 | Consumers | Ingestion       | Long-term systemic effects | 36 mg/kg              |



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|-----------------------------------------------------------------------------------|-----------|--------------|--------------------------------------|------------|
|                                                                                   | Workers   | Inhalation   | Acute local effects                  | 550 mg/m3  |
|                                                                                   | Consumers | Inhalation   | Acute local effects                  | 33 mg/m3   |
| Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | Workers   | Skin contact | Long-term exposure, Systemic effects | 25 mg/kg   |
|                                                                                   | Workers   | Inhalation   | Long-term exposure, Systemic effects | 150 mg/m3  |
|                                                                                   | Consumers | Skin contact | Long-term exposure, Systemic effects | 11 mg/kg   |
|                                                                                   | Consumers | Inhalation   | Long-term exposure, Systemic effects | 32 mg/m3   |
|                                                                                   | Consumers | Ingestion    | Long-term exposure, Systemic effects | 11 mg/kg   |
| phosphoric acid                                                                   | Workers   | Inhalation   | Long-term local effects              | 1 mg/m3    |
|                                                                                   | Workers   | Inhalation   | Acute local effects                  | 2 mg/m3    |
|                                                                                   | Consumers | Inhalation   | Long-term local effects              | 0,73 mg/m3 |

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

| Substance name                  | Environmental Compartment | Value       |
|---------------------------------|---------------------------|-------------|
| 2-methoxy-1-methylethyl acetate | Fresh water               | 0,635 mg/l  |
|                                 | Marine water              | 0,0635 mg/l |
|                                 | Intermittent releases     | 6,35 mg/l   |
|                                 | Sewage treatment plant    | 100 mg/l    |
|                                 | Fresh water sediment      | 3,29 mg/kg  |
|                                 | Marine sediment           | 0,329 mg/kg |
|                                 | Soil                      | 0,29 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 : butyl-rubber  
Break through time : > 480 min  
Glove thickness : 0,7 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 : light yellow

Odour Threshold : No data available

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

Initial boiling point and boiling range : 146,00 °C  
Method: derived

Upper explosion limit / Upper flammability limit : 10,80 %(V)

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

Flash point : 42,00 °C  
Method: 48 (Abel-Pensky) DIN 51755

Auto-ignition temperature : > 200 °C  
Method: DIN 51794

Decomposition temperature : No data available

pH : 3 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20,000 mm<sup>2</sup>/s (20,00 °C)  
27,000 mm<sup>2</sup>/s (40,00 °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                        | : | 5 hPa (20,00 °C)<br>Method: derived                                        |
| Relative density                       | : | No data available                                                          |
| Density                                | : | 1,0250 g/cm <sup>3</sup> (20,00 °C)<br>Method: 4 (20°C oscillating U-tube) |
| Bulk density                           | : | Not applicable                                                             |
| Relative vapour density                | : | No data available                                                          |

### 9.2 Other information

|                        |   |                     |
|------------------------|---|---------------------|
| Flammability (liquids) | : | Sustains combustion |
| Evaporation rate       | : | 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. |
|                     |   | Vapours may form explosive mixture with air.        |
|                     |   | Gives off hydrogen by reaction with metals.         |

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

|                    |   |                                   |
|--------------------|---|-----------------------------------|
| Materials to avoid | : | Strong oxidizing agents<br>Metals |
|--------------------|---|-----------------------------------|

### 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:

Acute oral toxicity : Remarks: No data available

##### Components:

##### **Phosphoric acid polyester:**

Acute oral toxicity : LD50 Oral (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

##### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Method: OECD Test Guideline 402

##### **phosphoric acid:**

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

##### **Skin corrosion/irritation**

Causes severe burns.

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### **Product:**

Species : EPISKIN human epidermis skin constructs  
Assessment : Causes burns.  
Method : OECD Test Guideline 431  
Result : Causes burns.  
GLP : yes

Remarks : Extremely corrosive and destructive to tissue.

### **Components:**

#### **Phosphoric acid polyester:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **2-methoxy-1-methylethyl acetate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **phosphoric acid:**

Remarks : No data available

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

Causes serious eye damage.

### **Product:**

Remarks : May cause irreversible eye damage.

### **Components:**

#### **Phosphoric acid polyester:**

Species : Rabbit  
Assessment : Irritating to eyes.  
Result : Eye irritation  
GLP : yes

#### **2-methoxy-1-methylethyl acetate:**

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Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### **phosphoric acid:**

Remarks : No data available

### **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:**

#### **2-methoxy-1-methylethyl acetate:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

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### Components:

#### **Phosphoric acid polyester:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Method: Mutagenicity (micronucleus test)  
Result: negative  
GLP: yes

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Germ cell mutagenicity- : Classified based on benzene content < 0.1% (Regulation (EC)  
Assessment 1272/2008, Annex VI, Part 3, Note P)

#### **Carcinogenicity**

May cause cancer.

### Product:

Remarks : No data available

### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - : Classified based on benzene content < 0.1% (Regulation (EC)  
Assessment 1272/2008, Annex VI, Part 3, Note P)

#### **Reproductive toxicity**

Not classified due to lack of data.

### Product:

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available  
development

#### **STOT - single exposure**

May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### **STOT - repeated exposure**

Not classified due to lack of data.

### Product:

Remarks : No data available

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### Repeated dose toxicity

#### Product:

Remarks : No data available

#### Components:

##### Phosphoric acid polyester:

Species : Rat, male and female  
LOAEL : 4.000 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 407  
GLP : yes

### Aspiration toxicity

Not classified due to lack of data.

#### Product:

No data available

#### Components:

##### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 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.

### Further information

#### Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Concentrations substantially above the TLV value may cause narcotic effects.  
Solvents may degrease the skin.



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### 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:

##### **Phosphoric acid polyester:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 770 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 130 mg/l  
Exposure time: 72 h  
GLP: yes

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 500 mg/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test  
Method: DIN 38412, L 8  
GLP: no

##### **2-methoxy-1-methylethyl acetate:**

Toxicity to fish : LC50 (Fish): 100 - 180 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: no

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: no

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Toxicity to fish : LL50 (Fish): 9,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,2 mg/l

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|                                                     |   |                                                                                                                                         |
|-----------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------|
| aquatic invertebrates                               |   | Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes                                                                      |
| Toxicity to algae/aquatic plants                    | : | EC50 ( <i>Pseudokirchneriella subcapitata</i> ): 2,6 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes         |
| <b>phosphoric acid:</b>                             |   |                                                                                                                                         |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 ( <i>Daphnia magna</i> (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>GLP: yes             |
| Toxicity to algae/aquatic plants                    | : | ErC50 ( <i>Desmodesmus subspicatus</i> (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes |

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data available

#### **Components:**

##### **Phosphoric acid polyester:**

Biodegradability : Result: Not readily biodegradable.  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
GLP: no

##### **2-methoxy-1-methylethyl acetate:**

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

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: No data available

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### Components:

#### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n- : log Pow: 1,2 (20 °C)  
octanol/water pH: 6,8  
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 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.  
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.  
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.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |           |
|------|-----------|
| ADN  | : UN 2920 |
| ADR  | : UN 2920 |
| RID  | : UN 2920 |
| IMDG | : UN 2920 |
| IATA | : UN 2920 |

#### 14.2 UN proper shipping name

|      |                                                                                               |
|------|-----------------------------------------------------------------------------------------------|
| ADN  | : CORROSIVE LIQUID, FLAMMABLE, N.O.S.<br>(Orthophosphoric acid, 1-Methoxy-2-propanol acetate) |
| ADR  | : CORROSIVE LIQUID, FLAMMABLE, N.O.S.<br>(Orthophosphoric acid, 1-Methoxy-2-propanol acetate) |
| RID  | : CORROSIVE LIQUID, FLAMMABLE, N.O.S.<br>(Orthophosphoric acid, 1-Methoxy-2-propanol acetate) |
| IMDG | : CORROSIVE LIQUID, FLAMMABLE, N.O.S.<br>(Orthophosphoric acid, 1-Methoxy-2-propanol acetate) |
| IATA | : Corrosive liquid, flammable, n.o.s.<br>(Orthophosphoric acid, 1-Methoxy-2-propanol acetate) |

#### 14.3 Transport hazard class(es)

|      |         |
|------|---------|
| ADN  | : 8 (3) |
| ADR  | : 8 (3) |
| RID  | : 8 (3) |
| IMDG | : 8 (3) |
| IATA | : 8 (3) |

#### 14.4 Packing group

|                              |         |
|------------------------------|---------|
| ADN                          |         |
| Packing group                | : II    |
| Classification Code          | : CF1   |
| Hazard Identification Number | : 83    |
| Labels                       | : 8 (3) |
| ADR                          |         |
| Packing group                | : II    |
| Classification Code          | : CF1   |
| Hazard Identification Number | : 83    |
| Labels                       | : 8 (3) |
| Tunnel restriction code      | : D/E   |
| RID                          |         |
| Packing group                | : II    |
| Classification Code          | : CF1   |

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Hazard Identification Number : 83  
Labels : 8 (3)

### IMDG

Packing group : II  
Labels : 8 (3)  
EmS Code : F-E, S-C  
Remarks : IMDG Code segregation group 1 - Acids

### IATA (Cargo)

Packing instruction (cargo aircraft) : 855  
Packing group : II  
Labels : Corrosives, Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 851  
Packing instruction (LQ) : Y840  
Packing group : II  
Labels : Corrosives, Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

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

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Number on list 28: cumene

Number on list 72: benzene

Number on list 75: If you intend to  
use this product as tattoo ink, please  
contact your vendor.

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.

Volatile organic compounds : Law on the incentive tax for volatile organic compounds  
(VOCV)  
Volatile organic compounds (VOC) content: 46,62 %

### Other regulations:

The product belongs to group 1 according to the Swiss Chemicals Ordinance (ChemO 813.11).

### 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

H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H350 : May cause cancer.  
H411 : Toxic to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

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  
Skin Corr. : Skin corrosion

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|                     |   |                                                                                                                      |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------|
| 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   |
| 2019/1831/EU        | : | Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| CH BAT              | : | Switzerland. List of BAT-values                                                                                      |
| CH SUVA             | : | Switzerland. Limit values at the work place                                                                          |
| 2000/39/EC / TWA    | : | Limit Value - eight hours                                                                                            |
| 2000/39/EC / STEL   | : | Short term exposure limit                                                                                            |
| 2019/1831/EU / TWA  | : | Limit Value - eight hours                                                                                            |
| 2019/1831/EU / STEL | : | Short term exposure limit                                                                                            |
| CH SUVA / TWA       | : | Time Weighted Average                                                                                                |
| CH SUVA / 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; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|               |      |
|---------------|------|
| Flam. Liq. 3  | H226 |
| Skin Corr. 1B | H314 |

#### Classification procedure:

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

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|                   |      |                                     |
|-------------------|------|-------------------------------------|
| Eye Dam. 1        | H318 | Based on product data or assessment |
| Carc. 1B          | H350 | Calculation method                  |
| STOT SE 3         | H336 | Calculation method                  |
| STOT SE 3         | H335 | 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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## Annex: Exposure Scenarios

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