

# SAFETY DATA SHEET

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



## DISPERBYK-111

Version: 18.1  
SDB\_REG\_EU

Revision Date: 26.11.2025

Date of last issue: 06.11.2025  
Print Date: 09.12.2025

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

#### 1.1 Product identifier

Trade name : DISPERBYK-111

Product code : 000000000000105348

Substance name : Polyphosphoric acids, reaction products with 2-oxepanone, polyethylene glycol mono-Me ether and tetrahydro-2H-pyran-2-one

CAS-No. : 162627-22-7

#### 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-Chemie GmbH  
Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-0  
Telefax : +49 281 65735

Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
E-mail address : GHS.BYK@altana.com

#### 1.4 Emergency telephone

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)

Serious eye damage, Category 1 H318: Causes serious eye damage.  
Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

#### 2.2 Label elements

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Signal Word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hazard Statements        | : | H314 Causes severe skin burns and eye damage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Precautionary Statements | : | <b>Prevention:</b><br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.<br><b>Response:</b><br>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.<br>P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.<br>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.<br><b>Disposal:</b><br>P501 Dispose of contents/ container to an approved waste disposal plant. |

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

- 7664-38-2 phosphoric acid

### 2.3 Other hazards

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

# SAFETY DATA SHEET

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



## DISPERBYK-111

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Substance name : Polyphosphoric acids, reaction products with 2-oxepanone, polyethylene glycol mono-Me ether and tetrahydro-2H-pyran-2-one

CAS-No. : 162627-22-7

Chemical nature : Polymeric phosphoric acid ester

### Components

| Chemical name             | CAS-No.<br>EC-No.      | Concentration (%)<br>w/w) | M-Factor, SCL, ATE                                                                                                                               |
|---------------------------|------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Phosphoric acid polyester | 162627-22-7            | $\geq 50 - \leq 100$      |                                                                                                                                                  |
| phosphoric acid           | 7664-38-2<br>231-633-2 | $\geq 1 - < 3$            | 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<br>$\geq 25$ % |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

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

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

In case of skin contact : 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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Version: 18.1  
SDB\_REG\_EU

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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 irritation.

### 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 : 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 fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides  
Sulfur oxides  
Oxides of phosphorus

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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## DISPERBYK-111

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---

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
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.  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

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

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.  
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 fire and explosion : Normal measures for preventive fire protection.

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

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

Requirements for storage areas and containers : Keep only in the original container.

Keep container tightly closed in a dry and well-ventilated  
place. Electrical installations / working materials must comply  
with the technological safety standards.

Advice on common storage : Keep away from oxidizing agents.  
Keep away from metals.

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

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## DISPERBYK-111

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storage stability

### 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      |
|-----------------|---------------------------------|-------------------------------|---------------------|------------|
| 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 |                               |                     |            |

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

| Substance name  | End Use   | Routes of exposure | Potential health effects | Value                  |
|-----------------|-----------|--------------------|--------------------------|------------------------|
| phosphoric acid | Workers   | Inhalation         | Long-term local effects  | 1 mg/m <sup>3</sup>    |
|                 | Workers   | Inhalation         | Acute local effects      | 2 mg/m <sup>3</sup>    |
|                 | Consumers | Inhalation         | Long-term local effects  | 0,73 mg/m <sup>3</sup> |

### 8.2 Exposure controls

#### Personal protective equipment

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

Hand protection  
Material : Nitrile rubber  
Break through time : > 120,00 min  
Glove thickness : 0,35 mm

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Environmental exposure controls

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

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### SECTION 9: Physical and chemical properties

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

|                                                  |   |                                                                      |
|--------------------------------------------------|---|----------------------------------------------------------------------|
| Physical state                                   | : | liquid                                                               |
| Color                                            | : | light yellow                                                         |
| Odor                                             | : | odorless                                                             |
| Odor Threshold                                   | : | No data available                                                    |
| Melting point/freezing point                     | : | 9,00 °C<br>Method: derived                                           |
| Initial boiling point and boiling range          | : | > 200 °C<br>Method: derived                                          |
| Upper explosion limit / Upper flammability limit | : | No data available                                                    |
| Lower explosion limit / Lower flammability limit | : | No data available                                                    |
| Flash point                                      | : | > 150 °C<br>Method: 49 (Pensky-Martens)                              |
| Autoignition temperature                         | : | > 200 °C<br>Method: DIN 51794                                        |
| Decomposition temperature                        | : | No data available                                                    |
| pH                                               | : | 1,1 (20 °C)<br>Concentration: 1 %<br>Method: DIN 19268 (1% in water) |
| Viscosity<br>Viscosity, dynamic                  | : | No data available                                                    |
| Solubility(ies)<br>Water solubility              | : | immiscible                                                           |
| Solubility in other solvents                     | : | No data available                                                    |
| Partition coefficient: n-octanol/water           | : | No data available                                                    |
| Vapor pressure                                   | : | < 1,0000000 hPa (20,00 °C)<br>Method: derived                        |

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SDB\_REG\_EU

Revision Date: 26.11.2025

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|                        |   |                                                                            |
|------------------------|---|----------------------------------------------------------------------------|
| Relative density       | : | No data available                                                          |
| Density                | : | 1,1600 g/cm <sup>3</sup> (20,00 °C)<br>Method: 4 (20°C oscillating U-tube) |
| Relative vapor 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 | : | Metals<br>Gives off hydrogen by reaction with metals.<br>No decomposition if stored and applied as directed. |
|---------------------|---|--------------------------------------------------------------------------------------------------------------|

### 10.4 Conditions to avoid

|                     |   |                   |
|---------------------|---|-------------------|
| Conditions to avoid | : | No data available |
|---------------------|---|-------------------|

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Components:

#### Phosphoric acid polyester:

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

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Version: 18.1  
SDB\_REG\_EU

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Print Date: 09.12.2025

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

### 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

Not classified due to lack of data.

### Product:

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

### phosphoric acid:

Remarks : No data available

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### Phosphoric acid polyester:

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

### phosphoric acid:

Remarks : No data available

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## DISPERBYK-111

Version: 18.1  
SDB\_REG\_EU

Revision Date: 26.11.2025

Date of last issue: 06.11.2025  
Print Date: 09.12.2025

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

#### Product:

Remarks : No data available

### 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

### 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

### Carcinogenicity

Not classified due to lack of data.

#### Product:

Remarks : No data available

### Reproductive toxicity

Not classified due to lack of data.

#### Product:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### STOT-single exposure

Not classified due to lack of data.

# SAFETY DATA SHEET

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



## DISPERBYK-111

Version: 18.1  
SDB\_REG\_EU

Revision Date: 26.11.2025

Date of last issue: 06.11.2025  
Print Date: 09.12.2025

### **Product:**

Remarks : No data available

### **STOT-repeated exposure**

Not classified due to lack of data.

### **Product:**

Remarks : No data available

### **Repeated dose toxicity**

### **Product:**

Remarks : No data available

### **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

## **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 : No data available

# SAFETY DATA SHEET

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



## DISPERBYK-111

Version: 18.1  
SDB\_REG\_EU

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Date of last issue: 06.11.2025  
Print Date: 09.12.2025

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

Toxicity to fish : 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

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
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

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## DISPERBYK-111

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SDB\_REG\_EU

Revision Date: 26.11.2025

Date of last issue: 06.11.2025  
Print Date: 09.12.2025

### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

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

### 12.6 Endocrine disrupting properties

**Product:**

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

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
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.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

# SAFETY DATA SHEET

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



## DISPERBYK-111

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**ADN** : UN 3264  
**ADR** : UN 3264  
**RID** : UN 3264  
**IMDG** : UN 3264  
**IATA** : UN 3264

### 14.2 UN proper shipping name

**ADN** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Orthophosphoric acid)  
**ADR** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Orthophosphoric acid)  
**RID** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Orthophosphoric acid)  
**IMDG** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(Orthophosphoric acid)  
**IATA** : Corrosive liquid, acidic, inorganic, n.o.s  
(Orthophosphoric acid)

### 14.3 Transport hazard class(es)

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : II  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8  
**ADR**  
Packing group : II  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : E  
**RID**  
Packing group : II  
Classification Code : C1  
Hazard Identification Number : 80  
Labels : 8  
**IMDG**  
Packing group : II

# SAFETY DATA SHEET

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Commission Regulation (EU) 2020/878



## DISPERBYK-111

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SDB\_REG\_EU

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Labels : 8  
EmS Code : F-A, S-B  
Remarks : IMDG Code segregation group 1 - Acids

### IATA (Cargo)

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

### IATA (Passenger)

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

## 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:<br>Number on list 3<br><br>Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).                                                  | : This product does not contain substances of very high concern                                                                                                                                        |

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|                                                                                                                                                         |                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| REACH - List of substances subject to authorisation (Annex XIV)                                                                                         | (Regulation (EC) No. 1907/2006 (REACH), Article 57).<br>: Not applicable |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | Not applicable                                                           |

### 15.2 Chemical Safety Assessment

Not applicable

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## 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 other abbreviations

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2000/39/EC / TWA  | : Limit Value - eight hours                                                                                          |
| 2000/39/EC / STEL | : Short term exposure limit                                                                                          |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; 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 Standardization; 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 Organization 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

# SAFETY DATA SHEET

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



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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, Authorization 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

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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