

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

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

#### 1.1 Product identifier

Trade name : RHEOBYK-431  
Product code : 000000000000130005

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

Use of the Sub-  
stance/Mixture : Rheology 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 number

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|  |  |
|--|--|
| Flammable liquids, Category 3  | H226: Flammable liquid and vapour.       |
| Skin irritation, Category 2  | H315: Causes skin irritation.            |
| Serious eye damage, Category 1   | H318: Causes serious eye damage.         |
| 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.  |

#### 2.2 Label elements

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

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|                          |   |   |
|--------------------------|---|---|
| Hazard pictograms        | : |   |
| Signal word              | : | Danger  |
| Hazard statements        | : | H226 Flammable liquid and vapour.<br>H315 Causes skin irritation.<br>H318 Causes serious eye damage.<br>H335 May cause respiratory irritation.<br>H336 May cause drowsiness or dizziness.   |
| Precautionary statements | : | <b>Prevention:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P261 Avoid breathing mist or vapours.<br>P264 Wash skin thoroughly after handling.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.<br><b>Response:</b><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>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

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

- 78-83-1 iso-butanol

### 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 a high molecular urea modified non polar polyamide

#### Components

| Chemical name | CAS-No. | Classification | Concentration |
|---------------|---------|----------------|---------------|
|---------------|---------|----------------|---------------|

# SAFETY DATA SHEET

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Revision Date: 03.01.2023

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|                  | EC-No.<br>Index-No.<br>Registration number |   | (% w/w)        |
|------------------|--|---|----------------|
| iso-butanol      | 78-83-1<br>201-148-0<br>01-2119484609-23   | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336<br>(Central nervous system)<br>STOT SE 3; H335<br>(Respiratory system)     | >= 50 - <= 100 |
| Polyamide        | -  | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319   | >= 25 - < 30   |
| 2-phenoxyethanol | 122-99-6<br>204-589-7<br>01-2119488943-21  | Acute Tox. 4; H302<br>Eye Dam. 1; H318<br>STOT SE 3; H335<br>(Respiratory system)<br><br>Acute toxicity estimate<br><br>Acute oral toxicity:<br>1.840 mg/kg | >= 7 - < 10    |

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 : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

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 : No information available.

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

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Halogenated compounds  
Metal oxides  
Hydrogen chloride

### 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.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
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Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

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

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

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

### 6.4 Reference to other sections

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

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

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

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

| Substance name   | End Use   | Exposure routes | Potential health effects                                  | Value                  |
|------------------|-----------|-----------------|---|------------------------|
| iso-butanol      | Workers   | Inhalation      | Long-term local effects                                   | 310 mg/m <sup>3</sup>  |
|                  | Consumers | Ingestion       | Long-term systemic effects                                | 25 mg/kg               |
|                  | Consumers | Inhalation      | Long-term local effects                                   | 55 mg/m <sup>3</sup>   |
| 2-phenoxyethanol | Workers   | Inhalation      | Long-term exposure, Systemic effects, Local effects       | 8,07 mg/m <sup>3</sup> |
|                  | Workers   | Skin contact    | Long-term exposure, Systemic effects                      | 34,72 mg/kg            |
|                  | Consumers | Inhalation      | Long-term exposure, Short-term exposure, Local effects    | 2,5 mg/m <sup>3</sup>  |
|                  | Consumers | Skin contact    | Long-term exposure, Local effects                         | 20,83 mg/kg            |
|                  | Consumers | Ingestion       | Long-term exposure, Short-term exposure, Systemic effects | 17,43 mg/kg            |

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

| Substance name   | Environmental Compartment | Value        |
|------------------|---------------------------|--------------|
| iso-butanol      | Fresh water               | 0,4 mg/l     |
|                  | Marine water              | 0,04 mg/l    |
|                  | Fresh water sediment      | 1,52 mg/kg   |
|                  | Marine sediment           | 0,152 mg/kg  |
|                  | Soil                      | 0,0699 mg/kg |
|                  | Sewage treatment plant    | 10 mg/l      |
|                  | Intermittent releases     | 11 mg/l      |
| 2-phenoxyethanol | Fresh water               | 0,943 mg/l   |
|                  | Marine water              | 0,0943 mg/l  |
|                  | Intermittent releases     | 3,44 mg/l    |
|                  | Fresh water sediment      | 7,2366 mg/kg |
|                  | Marine sediment           | 0,7237 mg/kg |
|                  | Soil                      | 1,26 mg/kg   |
|                  | Sewage treatment plant    | 24,8 mg/l    |

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

Wear face-shield and protective suit for abnormal processing problems.

Hand protection  
Material : Viton  
Break through time : 120 min

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

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 : yellow  
Odour : alcohol-like  
Odour Threshold : No data available

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

Initial boiling point : 106 °C  
Method: derived

Upper explosion limit / Upper flammability limit : 7 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Flash point : ca. 29 °C  
Method: 48 (Abel-Pensky)

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

Decomposition temperature : No data available

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

Viscosity  
Viscosity, dynamic : ca. 100 mPa.s (20 °C)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

Method: 11 (NV, 20°C)

Viscosity, kinematic : No data available

### Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : < 10 hPa (20 °C)  
Method: derived

Relative density : No data available

Density : ca. 0,87 g/cm<sup>3</sup> (20 °C, 1.013 hPa)  
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

Surface tension : No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents  
Acids

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

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

##### Components:

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

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

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

##### **2-phenoxyethanol:**

Acute oral toxicity : LD50 (Rat): 1.840 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
  
Acute toxicity estimate: 1.840 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 412  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

#### Skin corrosion/irritation

##### Product:

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

##### Components:

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

Species : Rabbit  
Result : Skin irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### 2-phenoxyethanol:

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

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

##### iso-butanol:

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

##### 2-phenoxyethanol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

##### iso-butanol:

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

##### 2-phenoxyethanol:

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

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### **Carcinogenicity**

**Product:**

Remarks : No data available

### **Reproductive toxicity**

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**Components:**

**2-phenoxyethanol:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 14 d  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Teratogenicity: NOAEL: 1.000 mg/kg body weight  
Method: OECD Test Guideline 414

Species: Rabbit  
Application Route: Dermal  
Duration of Single Treatment: 14 d  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Teratogenicity: NOAEL: 600 mg/kg body weight

### **STOT - single exposure**

**Product:**

Remarks : No data available

### **STOT - repeated exposure**

**Product:**

Remarks : No data available

### **Repeated dose toxicity**

**Product:**

Remarks : No data available

**Components:**

**2-phenoxyethanol:**

Species : Rat  
NOAEL : 700 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408

Species : Rat

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

NOAEL : 0,0482 mg/l  
Application Route : Inhalation  
Method : OECD Test Guideline 412  
Target Organs : Respiratory organs

### Aspiration toxicity

**Product:**

No data available

**Components:**

**iso-butanol:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

**Product:**

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

### 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

**Components:**

**iso-butanol:**

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 1.100 mg/l  
Exposure time: 48 h  
Test Type: static test

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.799 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test

### **2-phenoxyethanol:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): min. 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to fish (Chronic toxicity) : NOEC: 23 mg/l  
Exposure time: 34 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 9,43 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: No data available

### **Components:**

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

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

#### **2-phenoxyethanol:**

Biodegradability : Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### Components:

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

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

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### Product:

Assessment : This substance/mixture contains 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

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## **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.  
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**

ADR : UN 1212

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

**RID** : UN 1212  
**IMDG** : UN 1212  
**IATA** : UN 1212

### 14.2 UN proper shipping name

**ADR** : ISOBUTANOL, SOLUTION  
**RID** : ISOBUTANOL, SOLUTION  
**IMDG** : ISOBUTANOL, SOLUTION  
**IATA** : Isobutyl alcohol, solution

### 14.3 Transport hazard class(es)

**ADR** : 3  
**RID** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : D/E

**RID**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-D

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

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

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

Version 8.1  
SDB\_REG\_EU

Revision Date: 03.01.2023

Date of last issue: 11.11.2022  
Print Date 13.05.2025

### 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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

Fire Hazard Class : A II: Flash point 21 °C to 55 °C, at 15 °C not miscible in water

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

### 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.  
H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## RHEOBYK-431

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|             |   |  |
|-------------|---|--|
| Flam. Liq.  | : | Flammable liquids                                |
| Skin Irrit. | : | Skin irritation                                  |
| STOT SE     | : | Specific target organ toxicity - single exposure |

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

### Further information

#### Classification of the mixture:

|               |      |
|---------------|------|
| Flam. Liq. 3  | H226 |
| Skin Irrit. 2 | H315 |
| Eye Dam. 1    | H318 |
| STOT SE 3     | H336 |
| STOT SE 3     | H335 |

#### Classification procedure:

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