

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

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

#### 1.1 Product identifier

Trade name : PURABYK-R 5501  
Product code : 000000000000138270  
REACH Registration Number : 01-2119900458-39-0000, 01-2119900458-39-0001  
Substance name : Magnesium sodium lithium fluoride silicate  
CAS-No. : 85085-18-3

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

Use of the : Rheology Additive  
Substance/Mixture

#### 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)  
Not a hazardous substance or mixture.

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
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Date of last issue: 12.01.2023  
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### 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### 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.

Contaminated surfaces will be extremely slippery.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Magnesium sodium lithium fluoride silicate

CAS-No. : 85085-18-3

Chemical nature : Synthetic (modified) phyllosilicate

#### Components

Remarks : No hazardous ingredients

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.

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

In case of skin contact : Wash off with soap and water.  
Get medical attention if irritation develops and persists.

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
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Revision Date:  
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- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : No symptoms known or expected.
- Risks : Irritating to eyes, respiratory system and skin.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
  
Water mist  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during firefighting : The product itself does not burn.  
Material can be slippery when wet.
- Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# SAFETY DATA SHEET

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

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid breathing dust.  
Avoid dust formation.  
Keep people away from and upwind of spill/leak.  
Material can create slippery conditions.  
Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
Use approved industrial vacuum cleaner for removal.  
High efficiency particulate air filter (HEPA filter)  
Clean-up methods - large spillage  
Knock down dust with water spray jet.  
Shovel into suitable container for disposal.  
After cleaning, flush away traces with water.  
Clean-up methods - small spillage  
Sweep up or vacuum up spillage and collect in suitable container for disposal.  
  
Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
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 : Operate if possible out of doors or in a well-ventilated place.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
Avoid prolonged or repeated contact with skin.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
For personal protection see section 8.

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



## PURABYK-R 5501

Version:  
2.1

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Smoking, eating and drinking should be prohibited in the application area.  
Advice on protection against fire and explosion : Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage areas and containers : Avoid dust formation. Keep container tightly closed.

Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

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    |
|--------------------------------------------|---------|-----------------|--------------------------|----------|
| Magnesium sodium lithium fluoride silicate | Workers | Dermal          | Acute systemic effects   | 40 mg/kg |
|                                            | Workers | Inhalation      | Acute systemic effects   | 10 mg/m3 |
| Remarks:inhalable fraction                 |         |                 |                          |          |
| Magnesium sodium lithium fluoride silicate | Workers | Dermal          | Acute systemic effects   | 40 mg/kg |
|                                            | Workers | Inhalation      | Acute systemic effects   | 10 mg/m3 |
| Remarks:inhalable fraction                 |         |                 |                          |          |

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

| Substance name                             | Environmental Compartment | Value    |
|--------------------------------------------|---------------------------|----------|
| Magnesium sodium lithium fluoride silicate | Water                     | 0,1 mg/l |
| Magnesium sodium lithium fluoride silicate | Water                     | 0,1 mg/l |

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
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## PURABYK-R 5501

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### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation.  
Maintain air concentrations below occupational exposure standards.  
Dust must be extracted directly at the point of origin.

#### Personal protective equipment

Eye/face protection : Safety glasses  
Wear safety glasses with side shields or goggles.  
If the work environment or activity involves dusty conditions,  
mists or aerosols, wear the appropriate goggles.

Hand protection

Remarks : Wear suitable gloves.  
Use protective skin cream before handling the product. The  
suitability for a specific workplace should be discussed with  
the producers of the protective gloves.

Skin and body protection : Work uniform or laboratory coat.  
Protective suit

Respiratory protection : In the case of dust or aerosol formation use respirator with an  
approved filter.

Filter type : Suitable mask with particle filter P3 (European Norm 143)

#### Environmental exposure controls

General advice : Prevent further leakage or spillage if safe to do so.  
Try to prevent the material from entering drains or water  
courses.  
Local authorities should be advised if significant spillages  
cannot be contained.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : powder

Colour : white

Odour : odourless

Odour Threshold : Not applicable

Melting point/ range : Not applicable

Boiling point/boiling range : Not applicable

Flammability : Will not burn

Upper explosion limit / Upper  
flammability limit : Not applicable

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

---

|                                                  |   |                                                   |
|--------------------------------------------------|---|---------------------------------------------------|
| Lower explosion limit / Lower flammability limit | : | Not applicable                                    |
| Flash point                                      | : | Not applicable                                    |
| Auto-ignition temperature                        | : | Not applicable                                    |
| Decomposition temperature                        | : | No data available                                 |
| pH                                               | : | 9,7<br>Concentration: 20 g/l<br>(as a dispersion) |
| Viscosity<br>Viscosity, dynamic                  | : | Not applicable                                    |
| Solubility(ies)<br>Water solubility              | : | insoluble                                         |
| Solubility in other solvents                     | : | No data available                                 |
| Partition coefficient: n-octanol/water           | : | No data available                                 |
| Vapour pressure                                  | : | Not applicable                                    |
| Relative density                                 | : | 2,53 (20 - 21 °C)                                 |
| Density                                          | : | No data available                                 |
| Bulk density                                     | : | 1.000 kg/m <sup>3</sup>                           |
| Relative vapour density                          | : | Not applicable                                    |

### 9.2 Other information

|                  |   |                |
|------------------|---|----------------|
| Self-ignition    | : | Not applicable |
| Evaporation rate | : | Not applicable |

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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 : Stable under recommended storage conditions.

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : Exposure to air or moisture over prolonged periods.  
No data available

### 10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.  
No hazardous decomposition products are known.

## 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 : (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes  
  
(Rat, male and female): > 2.000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.1.  
GLP: no  
  
Acute inhalation toxicity : LC50 (Rat, male and female): > 1660 mg/m3  
Exposure time: 4 h  
Test atmosphere: dust/mist  
GLP: yes  
  
LC0 (Rat, male and female): > 0,34 mg/l  
Exposure time: 6 h  
Test atmosphere: dust/mist  
Method: Directive 67/548/EEC, Annex V, B.2.  
GLP: no  
  
Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg  
GLP: yes

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Result : No skin irritation  
GLP : yes

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

Species : EPISKIN human epidermis skin constructs  
Result : No skin irritation  
GLP : yes

### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Bovine corneal opacity and permeability assay (BCOP)  
Method : OECD Test Guideline 437  
Result : No eye irritation  
GLP : yes

### Respiratory or skin sensitisation

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Not classified due to lack of data.

#### Product:

Test Type : Mouse Local Lymph Node assay (LLNA)  
Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitisation.  
GLP : yes

Assessment : No acute effects have been observed.  
Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Product:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Metabolic activation: with and without metabolic activation

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

Not classified due to lack of data.

#### **Product:**

Remarks : No data available

### **Reproductive toxicity**

Not classified due to lack of data.

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal  
development : Remarks: No data available

### **STOT - single exposure**

Based on available data, the classification criteria are not met.

#### **Product:**

Assessment : The substance or mixture is not classified as specific target  
organ toxicant, single exposure.

### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

#### **Product:**

Assessment : The substance or mixture is not classified as specific target  
organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### **Product:**

Repeated dose toxicity -  
Assessment : No acute effects have been observed.  
No persistent or cumulative effects were observed.

### **Aspiration toxicity**

Not classified due to lack of data.

#### **Product:**

No data available

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

### 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

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes

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 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Method: OECD Test Guideline 209  
GLP: yes

#### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

### 12.2 Persistence and degradability

**Product:**

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

Biodegradability : Remarks: No data available

### 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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

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14.02.2025

Date of last issue: 12.01.2023  
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### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.4 Packing group

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable  
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).  
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable  
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving : Not applicable

# SAFETY DATA SHEET

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



## PURABYK-R 5501

Version:  
2.1

Revision Date:  
14.02.2025

Date of last issue: 12.01.2023  
Print Date: 18.02.2025

dangerous substances.

### 15.2 Chemical safety assessment

#### 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

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

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

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---

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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