

# SAFETY DATA SHEET

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



## BYK-4500

Version: 9.0  
SDB\_IE

Revision Date: 11.12.2025

Date of last issue: 29.09.2025  
Print Date: 16.12.2025

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

#### 1.1 Product identifier

Trade name : BYK-4500  
UFI : D6T5-Q0FR-R00M-HCF2  
Product code : 000000000000120586

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

Use of the Substance/Mixture : Adhesion Promoter

#### 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

+44 1235 239670

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin irritation, Category 2 H315: Causes skin irritation.  
Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

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

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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### Precautionary Statements : **Prevention:**

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### 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 modified alkylene copolymer

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                            | Concentration<br>(% w/w) |
|---------------|-------------------------------------------------------|-------------------------------------------|--------------------------|
| Polyamide     | -                                                     | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319 | >= 20 - < 25             |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.

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Do not leave the victim unattended.

- |                         |   |                                                                                                                                                                                             |
|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled              | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                               |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                      |
| In case of eye contact  | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : | Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.               |

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

- |          |   |                                                           |
|----------|---|-----------------------------------------------------------|
| Symptoms | : | No information available.                                 |
| Risks    | : | Causes skin irritation.<br>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<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet                                     |

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

- |                               |   |                                                     |
|-------------------------------|---|-----------------------------------------------------|
| Hazardous combustion products | : | Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> ) |
|-------------------------------|---|-----------------------------------------------------|

### 5.3 Advice for firefighters

- |                                                |   |                                                                        |
|------------------------------------------------|---|------------------------------------------------------------------------|
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |
|------------------------------------------------|---|------------------------------------------------------------------------|

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Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local  
circumstances and the surrounding environment.

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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 further leakage or spillage if safe to do so.

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

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

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

#### 7.3 Specific end use(s)

Specific use(s) : No data available

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### 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   | Routes of exposure | Potential health effects | Value      |
|-----------------------------------------------------------------|-----------|--------------------|--------------------------|------------|
| isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | Workers   | Skin contact       | Long-term exposure       | 13,9 mg/kg |
|                                                                 | Workers   | Inhalation         | Long-term exposure       | 49,0 mg/m3 |
|                                                                 | Consumers | Skin contact       | Long-term exposure       | 8,3 mg/kg  |
|                                                                 | Consumers | Inhalation         | Long-term exposure       | 14,5 mg/m3 |
|                                                                 | Consumers | Ingestion          | Long-term exposure       | 8,3 mg/kg  |

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

| Substance name                                                  | Environmental Compartment | Value       |
|-----------------------------------------------------------------|---------------------------|-------------|
| isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol | Fresh water               | 0,015 mg/l  |
|                                                                 | Sea water                 | 0,0015 mg/l |
|                                                                 | Intermittent releases     | 0,15 mg/l   |
|                                                                 | Fresh water sediment      | 0,17 mg/kg  |
|                                                                 | Sea sediment              | 0,017 mg/kg |
|                                                                 | Soil                      | 0,13 mg/kg  |
|                                                                 | Sewage treatment plant    | 7,5 mg/l    |

#### 8.2 Exposure controls

##### Personal protective equipment

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

Hand protection  
Material : butyl-rubber  
Break through time : 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.

##### Environmental exposure controls

General advice : Prevent further leakage or spillage if safe to do so.

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### SECTION 9: Physical and chemical properties

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

|                                                  |   |                                                                         |
|--------------------------------------------------|---|-------------------------------------------------------------------------|
| Physical state                                   | : | liquid                                                                  |
| Color                                            | : | dark orange                                                             |
| Odor                                             | : | alcohol-like                                                            |
| Odor Threshold                                   | : | No data available                                                       |
| Melting point/ range                             | : | < -10,00 °C<br>Method: derived                                          |
| Initial boiling point                            | : | > 250,00 °C<br>Method: derived                                          |
| Upper explosion limit / Upper flammability limit | : | No data available                                                       |
| Lower explosion limit / Lower flammability limit | : | No data available                                                       |
| Flash point                                      | : | 93 °C<br>Method: 49 (Pensky-Martens)                                    |
| Autoignition temperature                         | : | > 200 °C<br>Method: DIN 51794                                           |
| Decomposition temperature                        | : | No data available                                                       |
| pH                                               | : | 7 (20 °C)<br>Concentration: 1 %<br>Method: Universal pH-value indicator |
| Viscosity                                        |   |                                                                         |
| Viscosity, dynamic                               | : | No data available                                                       |
| 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                                                       |
| Vapor pressure                                   | : | < 1 hPa (20 °C)                                                         |

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Method: derived

|                        |   |                                                                                     |
|------------------------|---|-------------------------------------------------------------------------------------|
| Relative density       | : | No data available                                                                   |
| Density                | : | 1,00 g/cm <sup>3</sup> (20,00 °C, 1.013 hPa)<br>Method: 4 (20°C oscillating U-tube) |
| Bulk density           | : | Not applicable                                                                      |
| Relative vapor 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.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 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.

#### Product:

Acute oral toxicity : Remarks: No data available

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### Skin corrosion/irritation

Causes skin irritation.

#### Product:

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

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks : Causes serious eye irritation.

### 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

### 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.



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### **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

### **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

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## SECTION 12: Ecological information

### 12.1 Toxicity

### **Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

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### 12.2 Persistence and degradability

**Product:**

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

- 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

|      |   |                                   |
|------|---|-----------------------------------|
| 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 |

#### 14.2 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) | : | Conditions of restriction for the following entries should be considered: |
|--------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------|

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REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).

REACH - List of substances subject to authorisation (Annex XIV)

Fire Hazard Class : -; -

Number on list 3

: This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

: 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

## 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

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

### Full text of other abbreviations

Eye Irrit. : Eye irritation

Skin Irrit. : Skin irritation

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 -

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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 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

#### Classification of the mixture:

Skin Irrit. 2

H315

Eye Irrit. 2

H319

#### Classification procedure:

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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