

**BYK-P 9909**

Product code: 000000000000124864

Version 3.2 SDS\_APJ\_MY

Revision Date 17.05.2024

Print Date 22.05.2024

**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : BYK-P 9909

Recommended use : Compatibilizer

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH

Address : Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-23532

Telefax : +49 281 670-23533

E-mail address : GHS.BYK@altana.com

Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

**Label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

Precautionary statements :

**Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

**Response:**

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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**Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:  
65.501 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 65.501 %

**Other hazards which do not result in classification**

None known.

**SECTION 3: Composition and information of the ingredients of the hazardous chemical**

Substance / Mixture : Mixture  
Chemical nature : Solution of an ammonium salt of an acrylic acid copolymer

**Components**

| Chemical name   | CAS-No.  | Concentration (% w/w) |
|-----------------|----------|-----------------------|
| 2-butoxyethanol | 111-76-2 | >= 7 -< 10            |

**SECTION 4: First aid measures**

General advice : Move out of dangerous area.  
Show this 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 eye contact : Flush eyes with water as a precaution.  
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 give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : No information available.  
No information available.

Notes to physician : No information available.

**SECTION 5: Firefighting measures****Extinguishing media**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

**Physicochemical hazards arising from the chemical**

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

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### Special protective equipment and precautions for fire-fighters

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

### SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and 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.

### SECTION 7: Handling and storage

#### Handling

#### Precautions for safe handling

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.  
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.

#### Storage

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

- Conditions for safe storage : 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.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

| Components      | CAS-No.  | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis  |
|-----------------|----------|----------------------------------|---|--------|
| 2-butoxyethanol | 111-76-2 | TWA                              | 20 ppm  | MY PEL |

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|                           |  |     |                        |       |
|---------------------------|--|-----|------------------------|-------|
|                           |  |     | 96.7 mg/m <sup>3</sup> |       |
| Further information: Skin |  |     |                        |       |
|                           |  | TWA | 20 ppm                 | ACGIH |

**Biological occupational exposure limits**

| Components      | CAS-No.  | Control parameters      | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|-----------------|----------|-------------------------|---------------------|--|---------------------------|-----------|
| 2-butoxyethanol | 111-76-2 | Butoxyacetic acid (BAA) | Urine               | End of shift (As soon as possible after exposure ceases) | 200 mg/g creatinine       | ACGIH BEI |

**Individual protection measures, such as personal protective equipment (PPE)**

|                     |   |   |
|---------------------|---|---|
| Eye/face protection | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles   |
| Skin protection     | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hand protection     | : |   |
| Material            | : | PVC   |
| Break through time  | : | 120 min   |
| Remarks             | : | Wear suitable gloves.   |
| Hygiene measures    | : | Wash hands before breaks and at the end of workday.   |

**SECTION 9: Physical and chemical properties**

|                 |   |  |
|-----------------|---|--|
| Appearance      | : | liquid   |
| Colour          | : | yellow - brown   |
| Odour           | : | characteristic   |
| Odour Threshold | : | No data available  |
| pH              | : | 7 (20 °C)<br>Concentration: 10 %<br>Method: Universal pH-value indicator |

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

**Initial boiling point and boiling range** : > 150 °C  
Method: derived

Flash point : 79 °C  
Method: 49 (Pensky-Martens)

Evaporation rate : No data available

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|                        |   |                     |
|------------------------|---|---------------------|
| Flammability (liquids) | : | Sustains combustion |
|------------------------|---|---------------------|

|  |   |                   |
|--|---|-------------------|
| Upper explosion limit / Upper flammability limit | : | No data available |
|--|---|-------------------|

|  |   |                   |
|--|---|-------------------|
| Lower explosion limit / Lower flammability limit | : | No data available |
|--|---|-------------------|

|                 |   |   |
|-----------------|---|---|
| Vapour pressure | : | < 1 hPa (20 °C)<br>Method: <b>derived</b> |
|-----------------|---|---|

|                         |   |                   |
|-------------------------|---|-------------------|
| Relative vapour density | : | No data available |
|-------------------------|---|-------------------|

|                  |   |                   |
|------------------|---|-------------------|
| Relative density | : | No data available |
|------------------|---|-------------------|

|         |   |   |
|---------|---|---|
| Density | : | 1.040 g/cm <sup>3</sup> (20 °C, 1,013 hPa)<br>Method: 4 (20°C oscillating U-tube) |
|---------|---|---|

|              |   |                |
|--------------|---|----------------|
| Bulk density | : | Not applicable |
|--------------|---|----------------|

|                                     |   |                     |
|-------------------------------------|---|---------------------|
| Solubility(ies)<br>Water solubility | : | completely miscible |
|-------------------------------------|---|---------------------|

|                              |   |                   |
|------------------------------|---|-------------------|
| Solubility in other solvents | : | No data available |
|------------------------------|---|-------------------|

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

|                           |   |                   |
|---------------------------|---|-------------------|
| Auto-ignition temperature | : | No data available |
|---------------------------|---|-------------------|

|                           |   |                   |
|---------------------------|---|-------------------|
| Decomposition temperature | : | No data available |
|---------------------------|---|-------------------|

|                                 |   |                   |
|---------------------------------|---|-------------------|
| Viscosity<br>Viscosity, dynamic | : | No data available |
|---------------------------------|---|-------------------|

|                      |   |                   |
|----------------------|---|-------------------|
| Viscosity, kinematic | : | No data available |
|----------------------|---|-------------------|

### SECTION 10: Stability and reactivity

|            |   |   |
|------------|---|---|
| Reactivity | : | No decomposition if stored and applied as directed. |
|------------|---|---|

|                    |   |   |
|--------------------|---|---|
| Chemical stability | : | No decomposition if stored and applied as directed. |
|--------------------|---|---|

|                                    |   |   |
|------------------------------------|---|---|
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed. |
|------------------------------------|---|---|

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

|                        |   |   |
|------------------------|---|---|
| Incompatible materials | : | Bases<br>Strong oxidizing agents<br>Isocyanates |
|------------------------|---|---|

|                                  |   |   |
|----------------------------------|---|---|
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |
|----------------------------------|---|---|

### SECTION 11: Toxicological information

|  |   |             |
|--|---|-------------|
| Information on likely routes of exposure | : | None known. |
|--|---|-------------|

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**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,847 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 11.08 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

**Skin corrosion/irritation****Product:**

Remarks : No data available

**Components:****2-butoxyethanol:**

Species : Rabbit  
Result : Skin irritation

**Serious eye damage/eye irritation****Product:**

Remarks : No data available

**Components:****2-butoxyethanol:**

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

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Components:****2-butoxyethanol:**

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

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**Repeated dose toxicity****Product:**

Remarks : No data available

**Further information****Product:**

Remarks : No data available

**SECTION 12: Ecological information****Ecotoxicity****Product:**Toxicity to fish :  
Remarks: No data availableToxicity to daphnia and other :  
aquatic invertebrates Remarks: No data available**Components:****2-butoxyethanol:**Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1,550 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,840  
plants mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201Toxicity to fish (Chronic : NOEC: > 100 mg/l  
toxicity) Exposure time: 21 d  
Method: OECD Test Guideline 204Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 100 mg/l  
aquatic invertebrates Exposure time: 21 d  
(Chronic toxicity) Test Type: semi-static test  
Method: OECD Test Guideline 211**Persistence and degradability****Product:**

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Biodegradability : Remarks: No data available

### Components:

#### 2-butoxyethanol:

Biodegradability : aerobic  
 Result: Readily biodegradable.  
 Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### 2-butoxyethanol:

Partition coefficient: n-  
 octanol/water : log Pow: 0.81 (25 °C)  
 pH: 7

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological  
 information : No data available

## SECTION 13: Disposal information

### Disposal methods

Waste from residues : 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.

## SECTION 14: Transport information

### International Regulations

#### UNRTDG

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable

#### IATA-DGR

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UN/ID No. : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable  
 Packing instruction (cargo aircraft) : Not applicable  
 Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable  
 EmS Code : Not applicable  
 Marine pollutant : Not applicable

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Special precautions for user

Not applicable

## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

## SECTION 16: Other information

Date format : dd.mm.yyyy

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
 MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / TWA : 8-hour, time-weighted average

MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with

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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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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