

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

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

Product name : BYK-W 907

Recommended use : Wetting & Dispersing Additive

**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 : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Flammable liquids : Category 3

Serious eye damage/eye irritation : Category 2

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Hazardous to the aquatic environment - chronic hazard : Category 2

**Label elements**

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 P391 Collect spillage.

**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 a copolymer with filler affinic groups

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
2-phenylpropene	98-83-9	>= 30 -< 50
2-hydroxyethyl methacrylate	868-77-9	>= 1 -< 3
1-methoxy-2-propanol	107-98-2	>= 1 -< 3

**SECTION 4: First aid measures**

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

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

In case of skin contact : If on skin, rinse well with water.  
 If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
 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.

Notes to physician : No information available.

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

## BYK-W 907

Product code: 00000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

### Physicochemical hazards arising from the chemical

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

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

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

## SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 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.
- Methods and materials for containment and 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).

## SECTION 7: Handling and storage

### Handling

#### Precautions for safe handling

- 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 vapors).  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.

**BYK-W 907**

Product code: 00000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

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.  
 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.  
 Dispose of rinse water in accordance with local and national regulations.  
 Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Storage**
**Conditions for safe storage, including any incompatibilities**

Conditions for safe storage : 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.

**SECTION 8: Exposure controls and personal protection**
**Control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-phenylpropene	98-83-9	TWA	50 ppm 242 mg/m <sup>3</sup>	MY PEL
		TWA	10 ppm	ACGIH
1-methoxy-2-propanol	107-98-2	TWA	100 ppm 369 mg/m <sup>3</sup>	MY PEL
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH

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

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

Skin protection : Impervious clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection  
 Material : butyl-rubber  
 Break through time : > 480 min

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

Remarks : Wear suitable gloves.  
Respiratory protection : In the case of vapor formation use a respirator with an approved filter.  
Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties**

Appearance : liquid  
Color : yellow - brown  
Odor : characteristic  
Odor Threshold : No data available  
pH : 7 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator  
Solidification / Setting point : < 0 °C  
Method: derived  
Initial boiling point : 120 °C  
Method: derived  
Flash point : 42 °C  
Method: 49 (Pensky-Martens)  
Evaporation rate : No data available  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available  
Vapor pressure : 11.5 mbar  
Method: derived  
Relative vapor density : No data available  
Density : 0.994 g/cm<sup>3</sup> (20 °C, 1,013 hPa)  
Method: 4 (20°C oscillating U-tube)  
Solubility(ies)  
Water solubility : partly soluble  
Partition coefficient: n-octanol/water : No data available  
Autoignition temperature : > 200 °C  
Method: M0062 (Analytics Wesel)

**BYK-W 907**

Product code: 00000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

Decomposition temperature : No data available

Viscosity  
Viscosity, kinematic : No data available

Surface tension : 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.  
Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids  
Free radical initiators  
Oxidizing agents  
Powdered metal salts

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

**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

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

Acute oral toxicity : Remarks: No data available

**Components:****1-methoxy-2-propanol:**

Acute oral toxicity : LD50 (Rat, male and female): 4,016 mg/kg  
Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: Directive 67/548/EEC, Annex V, B.3.  
GLP: yes

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

Remarks : May cause skin irritation and/or dermatitis.

**Components:****1-methoxy-2-propanol:**

Species : Rabbit

Method : Directive 67/548/EEC, Annex V, B.4.

Result : No skin irritation

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

GLP : yes

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

Remarks : Causes serious eye irritation.

**Components:****1-methoxy-2-propanol:**

Species : Rabbit  
Result : No eye irritation  
Method : Directive 67/548/EEC, Annex V, B.5.  
GLP : yes

**Respiratory or skin sensitization****Product:**

Remarks : Causes sensitization.

**Components:****1-methoxy-2-propanol:**

Test Type : Maximization Test  
Routes of exposure : Dermal  
Species : Guinea pig  
Method : Directive 67/548/EEC, Annex V, B.6.  
Result : Does not cause skin sensitization.  
GLP : yes

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Carcinogenicity****Product:**

Remarks : No data available

**Reproductive toxicity****Product:**

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

**STOT-single exposure****Product:**

Remarks : No data available

**STOT-repeated exposure****Product:**

Remarks : No data available

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

Remarks : No data available

**Aspiration toxicity****Product:**

No data available

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

Remarks : Solvents may degrease the skin.

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**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-phenylpropene:**Toxicity to fish : LC50 (Brachydanio rerio (Zebrafisch)): 2.97 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yesToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.645 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yesToxicity to algae/aquatic : NOEC (Desmodesmus subspicatus (green algae)): 2.26 mg/l  
plants Exposure time: 72 h

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

Method: OECD Test Guideline 201

GLP: yes

EC50 (Desmodesmus subspicatus (green algae)): 11.441 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

**2-hydroxyethyl methacrylate:**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 380 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 836 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 24.1 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

**1-methoxy-2-propanol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6,812 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

**Persistence and degradability****Product:**

Biodegradability : Remarks: No data available

**Components:****2-phenylpropene:**

Biodegradability : Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D  
GLP: yes

**BYK-W 907**

Product code: 00000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

**2-hydroxyethyl methacrylate:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Method: OECD Test Guideline 301C  
GLP: yes

**1-methoxy-2-propanol:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301  
GLP: yes

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Components:****2-hydroxyethyl methacrylate:**

Partition coefficient: n-  
octanol/water : log Pow: 0.42 (25 °C)  
pH: > 5.9 - < 6.1  
Method: OECD Test Guideline 107  
GLP: yes

**1-methoxy-2-propanol:**

Partition coefficient: n-  
octanol/water : log Pow: 0.37 (20 °C)  
pH: 6.8  
Method: OECD Test Guideline 117  
GLP: No information available.

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological  
information : An environmental hazard cannot be excluded in the event of  
unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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**SECTION 13: Disposal information****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water  
courses or the soil.  
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.

**BYK-W 907**

Product code: 00000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information****International Regulations****IATA-DGR**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(Isopropenylbenzene, 1-Methoxy-2-propanol)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

**IMDG-Code**

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Isopropenylbenzene, 1-Methoxy-2-propanol)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : yes  
Remarks : IMDG Code segregation group - none

**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**

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.

**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)

MY PEL : Malaysia. Occupational Safety and Health (Use and

**BYK-W 907**

Product code: 000000000000157812

Version 2.1 SDS\_APJ\_MY

Revision Date 13.11.2025

Print Date 19.11.2025

Standards of Exposure of Chemicals Hazardous to Health)  
Regulations 2000.

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
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 Standardization; DSL - Domestic Substances List (Canada); 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; 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 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - 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

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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