

BYK-4509

Version 9

Revision Date 05/17/2026

Print Date 06/25/2026

SECTION 1. IDENTIFICATION

Product name : BYK-4509

Manufacturer or supplier's detailsCompany : BYK USA LLC
524 South Cherry Street
Wallingford CT 06492

Telephone : (203) 265-2086

Visit our web site : www.byk.comE-mail address : BRIEF.BYK.NAFTA@altana.comEmergency telephone : 203-265-2086; CHEMTREC 1-800-424-9300 / +1
number 703-527-3887**Recommended use of the chemical and restrictions on use**

Recommended use : Adhesion Promoter

Restrictions on use : Refer to Section 15 for any restrictions that may apply

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting
equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately
all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use dry sand, dry chemical or
alcohol-resistant foam to extinguish.

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Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : solution of polyester alkyl ammonium salt

Hazardous components

| Component | CAS-No. | Concentration (%) |
|----------------------|----------|-------------------|
| 1-Methoxy-2-propanol | 107-98-2 | >= 10 - < 20 |

SECTION 4. FIRST AID MEASURES

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

If inhaled : Remove to fresh air. Administer artificial respiration if necessary. Get medical aid as soon as possible.
 If unconscious, place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
 Call a physician or poison control centre immediately.

In case of skin contact : Remove contaminated clothing. Wash thoroughly with soap and water.

In case of eye contact : Immediately flush with plenty of water for at least 20 minutes.
 Get medical aid.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 Immediately flush with plenty of water for at least 20 minutes.
 Get medical aid.

If swallowed : Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. Get medical aid. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.
 Never give anything by mouth to an unconscious person.
 Keep respiratory tract clear.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

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Most important symptoms and effects, both acute and delayed : Do NOT induce vomiting.
: No information available.
: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : No information available.

Specific hazards during firefighting : No information available.
: Will not explode on mechanical impact.

Do not allow run-off from fire fighting to enter drains or water courses.
May release toxic, irritating and/or corrosive gases.
Cool closed containers exposed to fire with water spray.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

Further information : Keep away from heat and sources of ignition.
Keep away from oxidizing agents.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Immediately evacuate personnel to safe areas.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Structural fire-fighting protective clothing provides limited protection in fire situations only.
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Eliminate all sources of ignition. Ventilate area if indoors.
Wear self-contained breathing apparatus and full protective clothing.

: Remove all sources of ignition.
Do not touch or walk through spill

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- Environmental precautions : Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Environmental precautions : Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- Do not flush into surface water or sanitary sewer system.
- Methods and materials for containment and cleaning up : Stop leak. Dike and contain spill.
- Absorb with suitable material and remove with sparkless shovel and/or scoop.
- Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and/or equipment that is capable of being grounded. Electronic devices must have the proper electrical rating.
- 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

- Advice on safe handling : Harmful in contact with skin.
- Avoid contact with skin and eyes.
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- Keep container closed when not in use.
- Ensure all equipment is electrically grounded before beginning transfer operations.
- Containers should be grounded when being emptied.
- Vapours may travel to areas away from work site before igniting/flashing back to Vapour source.
- Avoid formation of aerosol.
- 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.
- Do not breathe vapours/dust.
- Avoid contact with skin and eyes.
- 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.
- Conditions for safe storage : Avoid exposure to excessive heat, light, and air for prolonged periods of time.

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Keep in a dry, cool and well-ventilated place.
 Keep product and empty container away from heat and sources of ignition.
 Take measures to prevent the build up of electrostatic charge.
 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.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Keep away from oxidizing agents.

No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------------|----------|----------------------------------|--|-----------|
| 1-Methoxy-2-propanol | 107-98-2 | TWA | 50 ppm | ACGIH |
| 1-Methoxy-2-propanol | | STEL | 100 ppm | ACGIH |
| 1-Methoxy-2-propanol | | TWA | 100 ppm 360 mg/m ³ | NIOSH REL |
| 1-Methoxy-2-propanol | | ST | 150 ppm 540 mg/m ³ | NIOSH REL |

Engineering measures : Use with local exhaust ventilation.

Use with local exhaust ventilation.
 Engineering and/or work practice controls should be implemented to maintain exposure to respirable crystalline silica below the permissible exposure limit.

Personal protective equipment

Respiratory protection : Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator (NIOSH approved) or dust mask during exposure.
 When using this product at elevated temperatures, wear a respirator with a vapour filter (see section 8).
 If there is potential for overexposure, wear a respirator that is appropriate for the state of matter (mist/vapor/aerosol/particulate) and is NIOSH approved and properly fitted in accordance with applicable regulations

Hand protection
 Material : Nitrile rubber

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| | | |
|--------------------------|---|--|
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : | Goggles Safety glasses with side-shields Ensure that eyewash stations and safety showers are close to the workstation location. Wear eye/face protection if there is potential for direct contact of vapors/mists/dusts/aerosol/liquid to the eye or face. |
| Skin and body protection | : | Eye wash bottle with pure water Tightly fitting safety goggles Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. Clean long legged, long sleeved work clothes. If splashing is possible, wear chemically resistant protective clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. Wash hands before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Physical state | : | liquid |
| Colour | : | light yellow |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| pH | : | 7, Concentration: 10 % (68 °F (20 °C)) Method: Universal pH-value indicator |
| Melting point/ range | : | < 32 °F (< 0 °C) Method: derived |
| Initial boiling point and boiling range | : | > 248 °F (> 120 °C) Method: derived |
| Vapour pressure | : | 12 hPa (68 °F (20 °C)) Method: derived |
| Flash point | : | 113 °F (45 °C) Method: 48 (Abel-Pensky) DIN 51755 |

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| | | |
|--|---|--|
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Evaporation rate | : | No data available |
| Relative vapour density | : | No data available |
| Relative Density/Specific Gravity | : | No data available |
| Density | : | 1.111 g/cm ³ (68 °F (20 °C)) Method: 4 (20°C oscillating U-tube) |
| Solubility(ies) | | |
| Water solubility | : | completely miscible |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Ignition temperature | : | > 392 °F (> 200 °C) Method: DIN 51794 |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|---|
| Reactivity | : | Not classified as a reactivity hazard. Not classified as a reactivity hazard. |
| Chemical stability | : | Stable; polymerization will not occur No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | 1-Methoxy-2-propanol acetate/DPM may form peroxides of unknown stability. Stable under recommended storage conditions. No hazards to be specially mentioned. No data available Vapours may form explosive mixture with air. |
| Conditions to avoid | : | Prolonged heat/light/air exposure |

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Incompatible materials : Heat, flames and sparks.
: Strong oxidizing agents
Hazardous decomposition : No data available
products : No data available

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Ingestion
Eyes
Skin Absorption
Skin contact

Acute toxicity**Product:**

Acute oral toxicity : Remarks: No data available

Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Components:**107-98-2 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 inhalation toxicity : LC50 (Rat): 1500 ppm

Acute dermal toxicity : LD50 (Rabbit): 13,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Components:**107-98-2 1-Methoxy-2-propanol:**

Species: Rabbit
Method: Directive 67/548/EEC, Annex V, B.4.
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation**Components:****107-98-2 1-Methoxy-2-propanol:**

Species: Rabbit

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

Respiratory or skin sensitisation**Product:**

Remarks: No data available

Components:**107-98-2 1-Methoxy-2-propanol:**

Test Type: Maximisation Test
Exposure routes: Dermal
Species: Guinea pig
Method: Directive 67/548/EEC, Annex V, B.6.
Result: Does not cause skin sensitisation.
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

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

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STOT - single exposure**Product:**

Remarks: No data available

STOT - repeated exposure**Product:**

Remarks: No data available

Repeated dose toxicity**Product:**

Remarks: Solvent absorption by inhalation and/or repeated skin contact may cause injury to liver, kidney and respiratory system.

Aspiration toxicity**Product:**

No data available

Experience with human exposure**Product:**

Inhalation:

Symptoms:

High concentrations are irritating to the respiratory tract. Has caused headaches, dizziness, nausea, vomiting and CNS depression (drowsiness, loss of coordination and fatigue).

Skin contact:

Symptoms:

Contact will probably cause irritation.

Eye contact:

Symptoms:

Contact will probably cause irritation.

Ingestion:

Symptoms:

Ingestion will probably irritate the digestive tract; high dosages may cause CNS depression.

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 available

Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : There is no data available for this product.
No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

EPA Hazardous Waste Code(s) : D001: Ignitable

Waste from residues : Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Dispose of in accordance with applicable local/municipal,

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Contaminated packaging : state/provincial and federal regulations.
 : Empty remaining contents.
 : Dispose of as unused product.
 : Do not re-use empty containers.
 : Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION
International Regulations
IATA-DGR

UN/ID No. : UN 3092
 Proper shipping name : 1-Methoxy-2-propanol, solution
 Class : 3
 Packing group : III
 Labels : Flammable Liquids
 Packing instruction (cargo aircraft) : 366
 Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 3092
 Proper shipping name : 1-METHOXY-2-PROPANOL, SOLUTION
 Class : 3
 Packing group : III
 Labels : 3
 EmS Code : F-E, S-D
 Marine pollutant : no

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

Not applicable for product as supplied.

National Regulations
49 CFR

UN/ID/NA number : UN 3092
 Proper shipping name : 1-Methoxy-2-propanol, solution
 Class : 3
 Packing group : III
 Labels : FLAMMABLE LIQUID
 ERG Code : 129
 Marine pollutant : no
 Container sizes: 55 gallon drums, 5 or 6-gallon pails, 2oz/16oz samples

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

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US. EPA CERCLA Hazardous Substances (40 CFR 302)

This material does not contain any components with a CERCLA RQ.

SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

Massachusetts Right To Know

| | |
|----------------------|----------|
| 1-Methoxy-2-propanol | 107-98-2 |
|----------------------|----------|

Pennsylvania Right To Know

| | |
|----------------------|----------|
| Polymer | - |
| 1-Methoxy-2-propanol | 107-98-2 |

New Jersey Right To Know

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5379

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California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

| | | |
|-------------------|---|---|
| TSCA | : | All substances listed as active on the TSCA inventory |
| Section 5a | : | No substances are subject to a Significant New Use Rule. |
| Section 4 / 12(b) | : | No substances are subject to TSCA 12(b) export notification requirements. |
| DSL | : | The following component(s) is/are not listed on the DSL: |
| CEPA Category | : | Polymer |
| Weight percent | : | 81.0 % |
| NSN Filed | : | Schedule 9 |
| Max. NSN Required | : | Schedule 10 |

SECTION 16. OTHER INFORMATION

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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.