

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

SECTION 1. IDENTIFICATION

Product name : BYK-4513

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.com

E-mail address : BRIEF.BYK.NAFTA@altana.com

Emergency 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 4

GHS label elements

Signal word : Warning

Hazard statements : H227 Combustible liquid.

Precautionary statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or
alcohol-resistant foam to extinguish.
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 a copolymer with functional groups

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

Hazardous components

| Component | CAS-No. | Concentration (%) |
|-------------------------------------|------------|-------------------|
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 | >= 60 - < 80 |

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

SECTION 4. FIRST AID MEASURES

| | |
|---|---|
| General advice | : 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 | : 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. |

SECTION 5. FIREFIGHTING MEASURES

| | |
|---|--|
| Suitable extinguishing media | : Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during firefighting | : Will not explode on mechanical impact. Cool closed containers exposed to fire with water spray. |
| Hazardous combustion products | : Carbon oxides Nitrogen oxides (NO _x) |
| Further information | : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

- Personal precautions, protective equipment and emergency procedures : Eliminate all sources of ignition. Wear protective equipment: safety glasses, gloves and an appropriate respirator.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- 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).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of aerosol.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Keep away from strong bases.
Keep away from oxidizing agents.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------------------------------|------------|----------------------------------|---|----------|
| 2-Methoxymethylethoxypropanol [DPM] | 34590-94-8 | TWA | 100 ppm 600 mg/m ³ | OSHA Z-1 |
| 2-Methoxymethylethoxypropanol [DPM] | | TWA | 50 ppm | ACGIH |

Engineering measures : Use with local exhaust ventilation.

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.

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

| | |
|-----------------------------|--|
| Hand protection Material | : Nitrile rubber |
| Remarks | : The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : Safety glasses with side-shields Eye wash bottle with pure water Tightly fitting safety goggles |
| Skin and body protection | : 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. Wash hands before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Physical state | : liquid |
| Colour | : yellow - brown |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| pH | : 7, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-value indicator |
| Melting point/freezing point | : < 50 °F (< 10 °C) Method: derived |
| Initial boiling point and boiling range | : 373.3 °F (189.6 °C) Method: derived |
| Vapour pressure | : < 0.037 kPa Method: derived |
| Flash point | : 183 °F (84 °C) Method: 49 (Pensky-Martens) |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Evaporation rate | : No data available |
| Relative vapour density | : No data available |

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

| | | |
|--|---|--|
| Relative Density/Specific Gravity | : | No data available |
| Density | : | 1.059 g/cm ³ (68 °F (20 °C)) Method: 4 (20°C oscillating U-tube) |
| Bulk density | : | Not applicable |
| Solubility(ies) | : | |
| Water solubility | : | immiscible |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Ignition temperature | : | > 392 °F (> 200 °C) Method: M0062 (Analytics Wesel) |
| Thermal decomposition | : | 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. Vapours may form explosive mixture with air. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | Bases Strong oxidizing agents |
| Hazardous decomposition products | : | No data available |

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

Inhalation
Eyes
Skin Absorption
Skin contact

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

Acute toxicity**Product:**

Acute oral toxicity : Remarks: No data available

Components:**34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

Acute oral toxicity : LD50 (Rat): 5,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 50 mg/l

Acute dermal toxicity : LD50 (Rabbit): 9,500 mg/kg

Skin corrosion/irritation**Product:**

Remarks: No data available

Components:**34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

Species: Rabbit

Result: slight irritation

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

Remarks: No data available

Components:**34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

Species: Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation**Product:**

Remarks: No data available

Components:**34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

Result: Does not cause skin sensitisation.

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: No data available

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

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

STOT - single exposure**Product:**

Remarks: No data available

STOT - repeated exposure**Product:**

Remarks: No data available

Repeated dose toxicity**Product:**

Remarks: No known chronic health effects.

Aspiration toxicity**Product:**

No data available

Components:**34590-94-8 2-Methoxymethylethoxypropanol [DPM]:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

regarded as if it causes a human aspiration toxicity hazard.

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 may cause irritation. Absorption has caused same symptoms as inhalation.

Eye contact:

Symptoms:

Contact may cause irritation.

Ingestion:

Symptoms:

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

Further information**Product:**

Remarks: Skin absorption of 10-20 ml/kg of DPM has caused CNS depression (in rabbits).
ACGIH-TLV-TWA for DPM = 100 ppm (skin)

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish

:

Remarks: No data available

Toxicity to daphnia and other
aquatic invertebrates

:

Remarks: No data available

Persistence and degradability**Product:**

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

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 : No data available

SECTION 13. DISPOSAL CONSIDERATIONS
Disposal methods

EPA Hazardous Waste Code(s) : Not applicable.

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

SECTION 14. TRANSPORT INFORMATION
International Regulations
IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

National Regulations**49 CFR**

Not regulated as a dangerous good

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****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 Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : 41.2 %
Method: 52 (20min/150°C + 1g Ethanol)
DIN EN ISO 3251

BYK-4513

Version 4

Revision Date 05/17/2026

Print Date 07/09/2026

Non-volatile information is not a specification.

Massachusetts Right To Know

2-Methoxymethylethoxypropanol [DPM] 34590-94-8

Pennsylvania Right To Know2-Methoxymethylethoxypropanol [DPM] 34590-94-8
Copolymer Not Assigned**New Jersey Right To Know****New Jersey Trade Secret Registry Number for the product (NJ TSRN)** : 800963-5513**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 : 40 %

NSN Filed : None

Max. NSN Required : Schedule 10

SECTION 16. OTHER INFORMATION

Revision Date : 05/17/2026

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.