

BYK-4510

Version 6 Revision Date 08/31/2021 Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name : BYK-4510

Manufacturer or supplier's details

Company : BYK USA Inc.

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 3

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system, Central nervous system)

GHS label elements

Hazard pictograms :





Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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.



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P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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

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. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

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

P405 Store locked up.

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 hydroxy functional copolymer with acidic groups.

Hazardous components

Component	CAS-No.	Concentration (%)
1-Methoxy-2-propanol	107-98-2	>= 20 -< 21

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 : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

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

If on clothes, remove clothes.



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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 : Alcohol-resistant foam

Carbon dioxide (CO2)

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

Further information : 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.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

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 vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.



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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

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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.

Conditions for safe storage : No smoking.

Keep container tightly closed in a dry and well-ventilated

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 : No materials to be especially mentioned.

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
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	ACGIH
1-Methoxy-2-propanol		STEL	100 ppm	ACGIH

Engineering measures : Use with local exhaust ventilation.



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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.

In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Material : Nitrile rubber

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 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

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : 4.4, Concentration: 1 % (68 °F (20 °C)) Method: DIN 19268

Melting point/range : < 32 °F (< 0 °C)

Method: derived

Initial boiling point : 248 °F (120 °C)

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Method: derived

Vapour pressure : 12 hPa (68 °F (20 °C))

Method: derived

Flash point : 118 °F (48 °C)

Method: 48 (Abel-Pensky)

Upper explosion limit : 13.7 %(V)

Lower explosion limit : 1.5 %(V)

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Relative vapour density : No data available

Relative Density/Specific

Gravity

: No data available

Density : 1.12 g/cm3 (68 °F (20 °C))

Method: 4 (20°C oscillating U-tube)

Bulk density : Not applicable

Solubility(ies)

Water solubility : insoluble

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

Surface tension : No data available

SECTION 10. STABILITY AND REACTIVITY



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Reactivity : No decomposition if stored and applied as directed.

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

Possibility of hazardous

reactions

: 1-Methoxy-2-propanol acetate/DPM may form peroxides of

unknown stability.

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: None expected

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



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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

Product:

Remarks: No data available

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

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

Species: Rabbit

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

Carcinogenicity

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.



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Repeated dose toxicity

Product:

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

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 may irritate the digestive tract; high

dosages may cause CNS depression.

Further information

Product:

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Persistence and degradability

Product:

Biodegradability : Remarks: No data available



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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Mobility in soilNo data available

Other adverse effects

Product:

Results of PBT and vPvB

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.

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 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.



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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 : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

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

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.



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

Non-volatile (Wt) : 80 %

Method: 22 (10min/150°C)

DIN EN ISO 3251

Non-volatile information is not a specification.

Massachusetts Right To Know

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

Pennsylvania Right To Know

Copolymer

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

New Jersey Right To Know

Copolymer -

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

New Jersey Trade Secret : 800963-5423

Registry Number for the product (NJ TSRN)



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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 : We certify that all of the components of this product are either

listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

TSCA Inventory Active List
All components of this product are listed active and/or are

exempt

DSL : We certify that all of the components of this product are listed

on the DSL.

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.