

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

SECTION 1. IDENTIFICATION

Product name : BYK-325 N

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 number : 203-265-2086; CHEMTREC 1-800-424-9300 / +1
703-527-3887**Recommended use of the chemical and restrictions on use**

Recommended use : Surface Additive

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

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Serious eye damage : Category 1

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

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
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.

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

P242 Use only non-sparking tools.
 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.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

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 polyether modified siloxane

Hazardous components

Component	CAS-No.	Concentration (%)
2-Phenoxyethanol	122-99-6	>= 20 - < 30
1-Methoxy-2-propanol acetate	108-65-6	>= 20 - < 30

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.

If inhaled : Do not leave the victim unattended.
 Consult a physician after significant exposure.

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

In case of skin contact	:	If unconscious, place in recovery position and seek medical advice. If on skin, rinse well with water.
In case of eye contact	:	If on clothes, remove clothes. Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	:	No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses. Handle as an industrial chemical. Will not explode on mechanical impact. Cool closed containers exposed to fire with water spray.
Hazardous combustion products	:	Carbon oxides silicone compounds formaldehyde
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.

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

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.
- 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 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.
To avoid spills during handling keep bottle on a metal tray.
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 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.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

			concentration	
1-Methoxy-2-propanol acetate	108-65-6	TWA	50 ppm	US WEEL

Hazardous components without workplace control parameters

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : Unless air monitoring demonstrates dusts/mists/vapors are below the recommended exposure levels and/or WEEL, wear a properly fitted respirator (NIOSH) 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

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

Skin and body protection

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

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
Colour : light brown
Odour : not significant
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 : 295 °F (146 °C)
Method: derived

Vapour pressure : 3.1 hPa (ca. 68 °F (20 °C))
Method: derived

Flash point : 135 °F (57 °C)

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

	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
Relative Density/Specific Gravity	: No data available
Density	: 1.021 g/cm ³ (68 °F (20 °C)) Method: 4 (20°C oscillating U-tube)
Bulk density	: Not applicable
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: M0062 (Analytics Wesel)
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: 461 mPa.s (68 °F (20 °C)) Method: P/K 20°C
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	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition	: No data available

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

products

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

Inhalation
Ingestion
Eye contact
Skin contact

Acute toxicity**Product:**

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

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

Components:**122-99-6 2-Phenoxyethanol:**

Acute oral toxicity : LD50 (Rat): 1,840 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rabbit): 3,818 mg/kg

108-65-6 1-Methoxy-2-propanol acetate:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 100 ppm
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation**Product:**

Remarks: Extremely corrosive and destructive to tissue.

Components:**122-99-6 2-Phenoxyethanol:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

108-65-6 1-Methoxy-2-propanol acetate:

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

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

Remarks: May cause irreversible eye damage.

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

Components:**122-99-6 2-Phenoxyethanol:**

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

108-65-6 1-Methoxy-2-propanol acetate:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation**Product:**

Remarks: No data available

Components:**122-99-6 2-Phenoxyethanol:**

Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

108-65-6 1-Methoxy-2-propanol acetate:

Species: Guinea pig
Method: OECD Test Guideline 406
Result: Not a skin sensitizer.
GLP: yes

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

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

Components:**122-99-6 2-Phenoxyethanol:**

Effects on foetal development : Species: Rat
Application Route: Oral
Duration of Single Treatment: 14 d
General Toxicity Maternal: No observed adverse effect level:
300 mg/kg body weight
Teratogenicity: No observed adverse effect level: 1,000 mg/kg
body weight
Method: OECD Test Guideline 414

Species: Rabbit
Application Route: Dermal
Duration of Single Treatment: 14 d
General Toxicity Maternal: No observed adverse effect level:
300 mg/kg body weight
Teratogenicity: No observed adverse effect level: 600 mg/kg
body weight

STOT - single exposure**Product:**

Remarks: No data available

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

STOT - repeated exposure**Product:**

Remarks: No data available

Repeated dose toxicity**Product:**

Remarks: Absorption of ingredients (solvents) by inhalation and/or repeated skin contact has caused injury to liver, kidney, respiratory system and blood.

Components:**122-99-6 2-Phenoxyethanol:**

Species: Rat

NOAEL: 700 mg/kg

Application Route: Oral

Method: OECD Test Guideline 408

Species: Rat

NOAEL: 0.0482 mg/l

Application Route: Inhalation

Method: OECD Test Guideline 412

Target Organs: Respiratory organs

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 cause irritation of the digestive tract.

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

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

Toxicity to daphnia and other :
aquatic invertebrates 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 : No data available
information

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- EPA Hazardous Waste Code(s) : D001: Ignitable
D018: Benzene
- 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**

- UN/ID No. : UN 3272
- Proper shipping name : Esters, n.o.s.
(1-Methoxy-2-propanol acetate)
- Class : 3
- Packing group : III
- Labels : Flammable Liquids
- Packing instruction (cargo aircraft) : 366
- Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 3272
- Proper shipping name : ESTERS, N.O.S.
(1-Methoxy-2-propanol acetate)
)
- Class : 3
- Packing group : III
- Labels : 3
- EmS Code : F-E, S-D
- Marine pollutant : no
- 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.

National Regulations**49 CFR**

- UN/ID/NA number : UN 3272

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

Proper shipping name : Esters, n.o.s.
 (1-Methoxy-2-propanol acetate)
 Class : 3
 Packing group : III
 Labels : FLAMMABLE LIQUID
 ERG Code : 127
 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know Act
US. EPA CERCLA Hazardous Substances (40 CFR 302)

Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 - Emergency Release Notification

Calculated RQ exceeds reasonably attainable upper limit.

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

Calculated RQ exceeds reasonably attainable upper limit.

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 product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

2-Phenoxyethanol	122-99-6	24 %
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Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):
 2-Phenoxyethanol 122-99-6 24 %

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).

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

2-Phenoxyethanol	122-99-6	24 %
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Non-volatile (Wt) : 51.4 %
 Method: 24 (30min/150°C)
 DIN EN ISO 3251
 Non-volatile information is not a specification.

Massachusetts Right To Know

Hydrogen Chloride	7647-01-0
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Pennsylvania Right To Know

Polyether modified polymethylalkylsiloxane	-
2-Phenoxyethanol	122-99-6
1-Methoxy-2-propanol acetate	108-65-6
Xylene	1330-20-7
Ethyl benzene	100-41-4

New Jersey Right To Know

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5382

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Ethyl benzene, Cumene, Benzene, which is/are known to the State of California to cause cancer, and Toluene, Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

SECTION 16. OTHER INFORMATION

Revision Date : 08/06/2024
 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

BYK-325 N

Version 3

Revision Date 08/06/2024

Print Date 05/14/2026

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.