

BYK-300

Version 9 Revision Date 04/05/2021 Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name BYK-300

Manufacturer or supplier's details

Company BYK USA Inc.

> 524 South Cherry Street Wallingford CT 06492

(203) 265-2086 Telephone 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

703-527-3887 number

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

Skin irritation : Category 2

Serious eye damage : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 2 (Kidney, Liver)

GHS label elements

Hazard pictograms : 🙆







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.



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	H315 Causes skin irritation. H318 Causes serious eye damage H336 May cause drowsiness or diz H351 Suspected of causing cance H361 Suspected of damaging fertil H373 May cause damage to organ prolonged or repeated exposure.	zziness. r. lity or the unborn child.
Precautionary statements	: Prevention: P201 Obtain special instructions be P202 Do not handle until all safety and understood. P210 Keep away from heat/ sparks No smoking. P233 Keep container tightly closed P240 Ground/bond container and rep241 Use explosion-proof electricate equipment. P242 Use only non-sparking tools. P243 Take precautionary measure P260 Do not breathe dust/ fume/ gep264 Wash skin thoroughly after hep271 Use only outdoors or in a wep280 Wear protective gloves/ proteface protection. Response: P303 + P361 + P353 IF ON SKIN all contaminated clothing. Rinse skep304 + P340 + P312 IF INHALED: and keep comfortable for breathing doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN water for several minutes. Remove and easy to do. Continue rinsing. In CENTER/ doctor. P308 + P313 IF exposed or concertatention. P332 + P313 If skin irritation occur attention. P362 Take off contaminated clothin P370 + P378 In case of fire: Use dalcohol-resistant foam to extinguish Storage: P403 + P233 Store in a well-ventilatightly closed. P403 + P235 Store in a well-ventilatightly closed. P405 Store locked up. Disposal: P501 Dispose of contents/ contained disposal plant.	precautions have been read s/ open flames/ hot surfaces. I. receiving equipment. al/ ventilating/ lighting Is against static discharge. as/ mist/ vapours/ spray. andling. Ill-ventilated area. active clothing/ eye protection/ (or hair): Take off immediately kin with water/ shower. Is Remove person to fresh air g. Call a POISON CENTER/ EYES: Rinse cautiously with a contact lenses, if present mmediately call a POISON rned: Get medical advice/ s: Get medical advice/ ag and wash before reuse. ry sand, dry chemical or h. ated place. Keep container ated place. Keep cool.



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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Solution of a polyether modified polydimethylsiloxane

Hazardous components

Component	CAS-No.	Concentration (%)
Xylene	1330-20-7	>= 26 -< 27
Ethyl benzene	100-41-4	>= 10 - < 11
Isobutanol	78-83-1	>= 9 -< 10
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 -<1

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

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.

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 skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : 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 : Keep respiratory tract clear.

Do NOT induce vomiting.



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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 (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Cool closed containers exposed to fire with water spray.

Will not explode on mechanical impact.

Do not allow run-off from fire fighting to enter drains or water

courses.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation. 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.

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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.

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 concentration	Basis
Xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
Xylene		STEL	150 ppm 655 mg/m3	OSHA P0
Xylene		TWA	100 ppm	OSHA P0



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			435 mg/m3	
Xylene		TWA	100 ppm	ACGIH
Xylene		STEL	150 ppm	ACGIH
Ethyl benzene	100-41-4	TWA	20 ppm	ACGIH
Ethyl benzene		TWA	100 ppm 435 mg/m3	OSHA Z-1
Ethyl benzene		TWA	100 ppm 435 mg/m3	OSHA P0
Ethyl benzene		STEL	125 ppm 545 mg/m3	OSHA P0
Isobutanol	78-83-1	TWA	50 ppm	ACGIH
Isobutanol		TWA	100 ppm 300 mg/m3	OSHA Z-1
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	US WEEL

Engineering measures : Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Material : Silver Shield gloves

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 : colourless

Odour : aromatic



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Odour Threshold : No data available

pH : 5, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-

value indicator

Melting point/range : $< 32 \, ^{\circ}F \, (< 0 \, ^{\circ}C)$

Method: derived

Initial boiling point : 222.80 °F (106.00 °C)

Method: derived

Vapour pressure : 9 hPa (68.00 °F (20.00 °C))

Method: derived

Flash point : 73.40 °F (23.00 °C)

Method: 48 (Abel-Pensky)

Upper explosion limit : 12.00 %(V)

Lower explosion limit : 1.00 %(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 : 0.9390 g/cm3 (68.00 °F (20.00 °C))

Method: 4 (20°C oscillating U-tube)

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: DIN 51 794/ DIN prEN 14 522

Thermal decomposition : No data available

Viscosity



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Viscosity, dynamic : No data available

Viscosity, kinematic : ca. 12 mm2/s (104 °F (40 °C))

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 : Strong oxidizing agents

Hazardous decomposition

products

: None expected

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Skin Absorption

Eyes Ingestion

Acute toxicity

Product:

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

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 29.08 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

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

Method: Calculation method

Components:

1330-20-7 Xylene:

Acute oral toxicity : LD50 (Rat): 4,300 mg/kg



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Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

GLP: no

Acute inhalation toxicity : LC50 (Rat): 5000 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 1,700 mg/kg

LD50 (Rabbit): > 4,200 mg/kg GLP: No information available.

100-41-4 Ethyl benzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 5,510 mg/kg

78-83-1 Isobutanol:

Acute oral toxicity : LD50 (Rat): 2,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 8000 ppm

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): 2,460 mg/kg

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Components:

1330-20-7 Xylene:

Species: Rabbit

Result: Moderate skin irritation

100-41-4 Ethyl benzene:

Species: Rabbit

Result: Moderate skin irritation

78-83-1 Isobutanol:

Species: Rabbit

Result: Moderate skin irritation

556-67-2 Octamethylcyclotetrasiloxane:

Species: Rabbit Result: slight irritation

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.



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

Components:

1330-20-7 Xylene: Species: Rabbit Result: Eye irritation

100-41-4 Ethyl benzene:

Species: Rabbit

Result: Moderate eye irritation

78-83-1 Isobutanol: Species: Rabbit

Result: Eye irritation

Method: OECD Test Guideline 405

GLP: yes

556-67-2 Octamethylcyclotetrasiloxane:

Species: Rabbit

Result: Mild eye irritation

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

78-83-1 Isobutanol:

Test Type: Maximisation Test Exposure routes: Dermal

Species: Guinea pig

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

556-67-2 Octamethylcyclotetrasiloxane:

Species: Guinea pig

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

GLP: yes

Carcinogenicity

Group 2B: Possibly carcinogenic to humans **IARC**

> Ethyl benzene 100-41-4

> Cumene 98-82-8



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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 Reasonably anticipated to be a human carcinogen

Cumene 98-82-8

Repeated dose toxicity

Product:

Remarks: Absorption of ingredients (solvents) by inhalation and/or repeated skin contact has caused injury to liver, kidney, brain, respiratory system, blood, and/or bone marrow in laboratory animals

Animal studies have shown Xylene to cause fetotoxic effects at dosage levels at or near maternal toxicity levels.

Excessive inhalation of Xylene has caused hearing loss in laboratory animals. Hexane used in conjunction w/Xylene greatly increased this effect. Chronic skin contact w/Xylene has caused dermatitis. Ingestion of Ethanol can increase effects of overexposure to Xylene.

Prolonged exposure to respirable aerosols (mists) of polyalkylene glycol has caused lung damage in rats (90 days; 0.3 mg/m3).

Isobutanol has shown positive results in an in vitro test for potential mutagenicity. Ethylbenzene is an IARC Group 2B carcinogen based on animal studies (increased tumors in rats and mice).

Inhalation (300 ppm)/ingestion (1600 mg/kg) dosages of Octamethylcyclotetrasiloxane has caused liver weight increases in laboratory animals. Liver weight changes via inhalation were reversible. A reproductive study (rats, inhalation: 700 ppm/70 days) showed a statistically significant reduction in mean litter size and implantation sites. The relevance of this data to humans is uncertain.

Aspiration toxicity

Components:

78-83-1 Isobutanol:

No aspiration toxicity classification

Experience with human exposure

Product:

Inhalation:

Symptoms: High concentrations of vapors may be

irritating to the respiratory tract. May cause headaches, dizziness, nausea and vomiting. May cause CNS depression (drowsiness,

loss of coordination and fatigue).

Skin contact:

Symptoms: Contact will probably cause irritation.



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Eye contact:

Symptoms: Contact will probably cause irritation.

Ingestion:

Symptoms: May irritate the digestive tract and cause

same symptoms as inhalation; high dosages

may result in unconsciousness.

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

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

Product:

Results of PBT and vPvB

assessment

: This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very

persistent and very bioaccumulative (vPvB).

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



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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 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 1993

Proper shipping name : Flammable liquid, n.o.s.

(Xylene, Isobutanol)

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.

(XYLENE, Isobutanol)

:)

Class : 3
Packing group : III
Labels : 3



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EmS Code : F-E, <u>S-E</u> 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 1993

Proper shipping name : Flammable liquids, n.o.s.

(Xylene, Isobutanol)

Class : 3 Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 128 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)

Components	CAS-No.	Component RQ Calculated product	
		(lbs)	(lbs)
Xylene	1330-20-7	100	373

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.



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SARA 313	to the reporting require	: 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.		
	Xylene	1330-20-7	26.8 %	
	Ethyl benzene	100-41-4	10.9 %	

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

 Xylene
 1330-20-7
 26.8 %

 Ethyl benzene
 100-41-4
 10.9 %

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).

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

Xylene	1330-20-7	26.8 %
Ethyl benzene	100-41-4	10.9 %
Isobutanol	78-83-1	9.9 %

Massachusetts Right To Know

Vulono	1330-20-7
Xylene	1330-20-7
Isobutanol	78-83-1
Ethyl benzene	100-41-4
Benzene	71-43-2
Propylene oxide	75-56-9
Hydrogen Chloride	7647-01-0
Acetaldehyde	75-07-0
Formaldehyde	50-00-0
Ethylene oxide	75-21-8

Pennsylvania Right To Know

1330-20-7
9038-95-3
-
78-83-1
-
100-41-4
98-82-8
108-88-3

New Jersey Right To Know



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New Jersey Trade Secret : 800963-5552

Registry Number for the product (NJ TSRN)

California Prop. 65

WARNING: This product can expose you to chemicals including Ethyl benzene, Cumene, Benzene, Propylene oxide, Acetaldehyde, Formaldehyde, Ethylene oxide, 1,4-Dioxane, which is/are known to the State of California to cause cancer, and Toluene, Benzene, Ethylene oxide, Methanol, Chloromethane, 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.

CONEG Heavy Metal: We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead, mercury, cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

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.