

DISPERBYK-160

Version 8 Revision Date 08/04/2020 Print Date 09/29/2022

SECTION 1. IDENTIFICATION

Product name : DISPERBYK-160

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 : Wetting & Dispersing Additive

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

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Inhalation) : Category 4

Eye irritation : Category 2A

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 : Warning

Hazard statements : H226 Flammable liquid and vapour.



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	H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or diz: H351 Suspected of causing cancer. H361 Suspected of damaging fertilit H373 May cause damage to organs prolonged or repeated exposure.	ty or the unborn child.
Precautionary statements	: Prevention: P201 Obtain special instructions be P202 Do not handle until all safety pand understood. P210 Keep away from heat/ sparks. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and re P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures P260 Do not breathe dust/ fume/ ga P264 Wash skin thoroughly after ha P271 Use only outdoors or in a well P280 Wear protective gloves/ prote face protection. Response: P303 + P361 + P353 IF ON SKIN (all contaminated clothing. Rinse ski P304 + P340 + P312 IF INHALED: and keep comfortable for breathing. doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: For several minutes. Remove contact to do. Continue rinsing. P308 + P313 IF exposed or concernattention. P337 + P313 If eye irritation persist attention. P370 + P378 In case of fire: Use dralcohol-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.	orecautions have been read / open flames/ hot surfaces. / open flames/ lighting / open flames/ lighting / open flames/ lighting / open flames/ vapours/ spray. / open flames/ vapours/ spray. / open flames/ vapours/ spray. / open flames/ open flames/ / open flames/ vapours/ spray. / open flames/ vapours/ spray. / open flames/ ighting / open flames/ hot surfaces. /

Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Solution of modified polyurethane

Hazardous components

Component	CAS-No.	Concentration (%)
Xylene	1330-20-7	>= 42 - < 43
Ethyl benzene	100-41-4	>= 17 -< 18
n-Butyl Acetate	123-86-4	>= 10 - < 11
Toluene	108-88-3	>= 0.1 -<1

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air. Administer artificial respiration if

necessary. Get medical aid as soon as possible.

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.

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.

Most important symptoms

and effects, both acute and

delayed

: No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: No information available.

Specific hazards during : Cool closed containers exposed to fire with water spray.



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firefighting Will not explode on mechanical impact.

Hazardous combustion

products

: Copper oxides

Nitrogen oxides (NOx)

Further information : Keep away from heat and sources of ignition.

Keep away from oxidizing agents.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

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.

Environmental precautions : Prevent spilled material from entering the ground, water

and/or air by using appropriate containment methods.

Methods and materials for containment and cleaning up

: Stop leak. Dike and contain spill.

Pump into salvage tanks and/or absorb with suitable material.

Use sparkless shovels to remove material.

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.

Handle as an industrial chemical. Keep container tightly closed.

Conditions for safe storage : 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.

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	OSHA Z-1



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			435 mg/m3	
Xylene		STEL	150 ppm	OSHA P0
			655 mg/m3	
Xylene		TWA	100 ppm	OSHA P0
			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	OSHA Z-1
			435 mg/m3	
Ethyl benzene		TWA	100 ppm	OSHA P0
			435 mg/m3	
Ethyl benzene		STEL	125 ppm	OSHA P0
			545 mg/m3	
n-Butyl Acetate	123-86-4	TWA	150 ppm	ACGIH
n-Butyl Acetate		STEL	200 ppm	ACGIH
n-Butyl Acetate		TWA	150 ppm	OSHA Z-1
			710 mg/m3	
n-Butyl Acetate		TWA	150 ppm	OSHA P0
			710 mg/m3	
n-Butyl Acetate		STEL	200 ppm	OSHA P0
			950 mg/m3	
Toluene	108-88-3	TWA	20 ppm	ACGIH
Toluene		TWA	200 ppm	OSHA Z-2
Toluene		CEIL	300 ppm	OSHA Z-2
Toluene		Peak	500 ppm	OSHA Z-2
Toluene		TWA	100 ppm	OSHA P0
			375 mg/m3	
Toluene		STEL	150 ppm	OSHA P0
			560 mg/m3	

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.

Hand protection

Material : Silver Shield gloves

: Safety Glasses Eye protection

Goggles

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : Clean long legged, long sleeved work clothes.

Handle in accordance with good industrial hygiene and safety

practice.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : light yellow

Odour : aromatic

Odour Threshold : No data available

pH : 6, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-

value indicator

Melting point/range : $< 59 \, ^{\circ}\text{F} \, (< 15 \, ^{\circ}\text{C})$

Method: derived

Initial boiling point : 255.20 °F (124.00 °C)

Method: derived

Vapour pressure : 6 hPa (68.00 °F (20.00 °C))

Method: derived

Flash point : 77.00 °F (25.00 °C)

Method: 48 (Abel-Pensky)

Upper explosion limit : 7.60 %(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 : 0.9500 g/cm3 (68.00 °F (20.00 °C))

Method: 4 (20°C oscillating U-tube)

Bulk density : Not applicable

Solubility(ies)

Water solubility : immiscible



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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 : 330 mm2/s (104.00 °F (40.00 °C))

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable; polymerization will not occur

Possibility of hazardous

reactions

: No data available

Conditions to avoid : None known.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: None expected

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Skin Absorption Inhalation Eyes Ingestion

Acute toxicity

Product:

Acute oral toxicity : Remarks: No data available

Acute toxicity estimate : > 5,000 mg/kg



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Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 17.05 mg/l

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

Acute dermal toxicity : Acute toxicity estimate : 3,998 mg/kg

Method: Calculation method

Components:

1330-20-7 Xylene:

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

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

123-86-4 n-Butyl Acetate:

Acute oral toxicity : LD50 (Rat, male): > 10,000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): > 21.1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 14,000 mg/kg

Method: OECD Test Guideline 402

108-88-3 Toluene:

Acute oral toxicity : LD50 (Rat): 2,600 mg/kg

Skin corrosion/irritation

Product:

Species: Rabbit

Method: OECD Test Guideline 404



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Result: No skin irritation

GLP: yes

Method: Patch Test 24 Hrs. Result: No skin irritation

Remarks: May cause skin irritation in susceptible persons.

Species: EPISKIN human epidermis skin constructs

Method: OECD Test Guideline 439

Result: No skin irritation

GLP: yes

Components:

1330-20-7 Xylene: Species: Rabbit

Result: Moderate skin irritation

100-41-4 Ethyl benzene:

Species: Rabbit

Result: Moderate skin irritation

123-86-4 n-Butyl Acetate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: Rabbit

Result: Irritating to eyes. Assessment: Irritating to eyes. Method: OECD Test Guideline 405

GLP: yes

Components:

1330-20-7 Xylene:

Species: Rabbit Result: Eye irritation

100-41-4 Ethyl benzene:

Species: Rabbit

Result: Moderate eye irritation

123-86-4 n-Butyl Acetate:

Species: Rabbit



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Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

123-86-4 n-Butyl Acetate:

Test Type: Buehler Test Species: Guinea pig

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

Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

Ethyl benzene 100-41-4

Cumene 98-82-8

OSHANo 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

Studies suggest n-Butyl acetate has caused teratogenic effects in laboratory animals at maternally toxic doses.

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.

Ethylbenzene is an IARC Group 2B carcinogen based on animal studies (increased tumors in rats and mice).



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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 may cause irritation.

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: Inhalation of n-Butyl acetate may cause narcosis.

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



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Mobility in soil

No 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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

EPA Hazardous Waste

Code(s)

: D001: Ignitable D018: Benzene

Waste from residues : Dispose of in accordance with applicable local/municipal,

state/provincial and federal regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

: UN 1993 UN/ID No.

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

(Xylene, Butyl acetates)

Class : 3 Packing group : 111

: Flammable Liquids Labels

Packing instruction (cargo

aircraft)

: 366

Packing instruction

: 355

(passenger aircraft)

IMDG-Code

UN number : UN 1993



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Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(XYLENE, BUTYL ACETATES)

:)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
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, Butyl acetates)

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 RQ
		(lbs)	(lbs)
Xylene	1330-20-7	100	235

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.



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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.

Xylene 1330-20-7 42.5 %

Ethyl benzene 100-41-4 17.4 %

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
 42.5 %

 Ethyl benzene
 100-41-4
 17.4 %

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
 42.5 %

 Ethyl benzene
 100-41-4
 17.4 %

 n-Butyl Acetate
 123-86-4
 10.3 %

Non-volatile (Wt) : 28 - 30 %

Method: 23 (20min/150°C)

DIN EN ISO 3251

Non-volatile information is not a specification.

Massachusetts Right To Know

 Xylene
 1330-20-7

 Ethyl benzene
 100-41-4

 n-Butyl Acetate
 123-86-4

 Benzene
 71-43-2

Pennsylvania Right To Know

Xylene 1330-20-7

Copolymer

Ethyl benzene 100-41-4 n-Butyl Acetate 123-86-4 Toluene 108-88-3

New Jersey Right To Know



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Xylene 1330-20-7

Copolymer -

Ethyl benzene 100-41-4 n-Butyl Acetate 123-86-4 Toluene 108-88-3

New Jersey Trade Secret : 800963-5160

Registry Number for the product (NJ TSRN)

California Prop. 65

MARNING: 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.

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.