

# **DISPERBYK-2001**

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#### **SECTION 1. IDENTIFICATION**

Product name DISPERBYK-2001

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 : 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

Skin irritation : Category 2

Eye irritation : Category 2A

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system, Central nervous system)

Specific target organ toxicity

- repeated exposure

: Category 2 (Kidney)

Aspiration hazard : Category 1

**GHS** label elements

Hazard pictograms







Signal word : Danger

: H226 Flammable liquid and vapour. Hazard statements

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.



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	H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.			
Precautionary statements :	H373 May cause damage to organs (Kidney) through prolon			
Other hazards				

# Other hazards

None known.



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#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Solution of a structured acrylic copolymer with pigment affinic

groups

## **Hazardous components**

Component	CAS-No.	Concentration (%)	
2-Butoxyethanol	111-76-2	>= 20 -< 21	
1-Methoxy-2-propanol acetate	108-65-6	>= 19 -< 20	
1-Methoxy-2-propanol	107-98-2	>= 12 -< 13	

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.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

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 : Immediately flush eye(s) with plenty of water.

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 : No information available.



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and effects, both acute and

delayed

#### **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
Sulphur oxides

Nitrogen oxides (NOx) Oxides of phosphorus

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

Keep away from oxidizing agents.

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.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform



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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. 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 strong acids.

Keep away from strong bases. Keep away from oxidizing agents.

Keep away from metals.

### **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-Butoxyethanol	111-76-2	TWA	20 ppm	ACGIH
2-Butoxyethanol		TWA	50 ppm 240 mg/m3	OSHA Z-1
1-Methoxy-2-propanol acetate	108-65-6	TWA	50 ppm	US WEEL
1-Methoxy-2-propanol	107-98-2	TWA	50 ppm	ACGIH



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1-Methoxy-2-propanol STEL 100 ppm ACGIH

**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 : 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 : Clean long legged, long sleeved work clothes.

Handle in accordance with good industrial hygiene and safety

practice.

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 : yellow

Odour : ester-like

Odour Threshold : No data available

pH : 6, Concentration: 10 % (68 °F (20 °C)) Method: Universal pH-

value indicator

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

Method: derived

Initial boiling point : 248.00 °F (120.00 °C)

Method: derived



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Vapour pressure : 5 hPa (68.00 °F (20.00 °C))

Method: derived

Flash point : 95.00 °F (35.00 °C)

Method: 48 (Abel-Pensky)

Upper explosion limit : 13.10 %(V)

Lower explosion limit : 1.10 %(V)

Evaporation rate : No data available

Relative vapour density : No data available

Relative Density/Specific

Gravity

: No data available

Density : 1.0270 g/cm3 (68.00 °F (20.00 °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: DIN 51794

Thermal decomposition : 365 °F (185 °C)

Method: Onset DSC - 100K

Viscosity

Viscosity, dynamic : 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.



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Possibility of hazardous

reactions

: 1-Methoxy-2-propanol acetate/1-Methoxy-2-propanol may

form peroxides of unknown stability.

Gives off hydrogen by reaction with metals.

No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Acids

Strong oxidizing agents

Alkalis Metals

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Skin contact Skin Absorption Inhalation Eyes Ingestion

### **Acute toxicity**

#### **Product:**

Acute oral toxicity : Acute toxicity estimate : 2,397 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 53.77 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:

#### **111-76-2 2-Butoxyethanol:**

Acute inhalation toxicity : LC50 (Guinea pig): 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Method: OECD Test Guideline 401



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GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 100 ppm

Exposure time: 4 h

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

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: May cause skin irritation in susceptible persons.

#### **Components:**

### 111-76-2 2-Butoxyethanol:

Species: Rabbit Result: Skin irritation

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

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

### **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: Causes serious eye irritation.

#### **Components:**

# 111-76-2 2-Butoxyethanol:

Species: Rabbit Result: Eye irritation

Method: OECD Test Guideline 405

GLP: yes



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

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

GLP: yes

## 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:**

## **111-76-2 2-Butoxyethanol:**

Test Type: Maximisation Test Exposure routes: Dermal Species: Guinea pig

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

GLP: yes

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

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

## **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

#### Germ cell mutagenicity

### **Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

## Carcinogenicity



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**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 : Remarks: No data available

development

STOT - single exposure

**Product:** 

Remarks: No data available

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/blood in laboratory animals.

2-Butoxyethanol had both positive and negative results in in vitro mutagenicity studies.

Animal studies show that 1-Methoxy-2-propanol acetate has caused damage to the respiratory

system.

**Aspiration toxicity** 

**Product:** 

No data available



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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 will probably cause irritation.

Eye contact:

Symptoms: Contact with liquid or vapor will probably

cause irritation.

Ingestion:

Symptoms: Ingestion may irritate the digestive tract and

cause same symptoms as inhalation.

### **Further information**

#### Product:

Remarks: Absorption of 2-Butoxyethanol may cause acute red blood cell damage and kidney effects. Inhalation of 2-Butoxyethanol has damaged the kidneys of laboratory animals. OSHA PEL-TWA for 2-butoxyethanol = 50 ppm (skin)

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 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

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

**EPA Hazardous Waste** 

Code(s)

: D001: Ignitable

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



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

(1-Methoxy-2-propanol, 1-Methoxy-2-propanol acetate)

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1993

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

(1-Methoxy-2-propanol, 1-Methoxy-2-propanol acetate)

: )

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.

(1-Methoxy-2-propanol, 1-Methoxy-2-propanol acetate)

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)

Calculated RQ exceeds reasonably attainable upper limit.

### 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 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-Butoxyethanol 111-76-2 20.4 %

#### 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).

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):

2-Butoxyethanol 111-76-2 20.4 %

Non-volatile (Wt) : 44 - 48 %

Method: 23 (20min/150°C)

**DIN EN ISO 3251** 

Non-volatile information is not a specification.

Massachusetts Right To Know

2-Butoxyethanol 111-76-2 1-Methoxy-2-propanol 107-98-2

Pennsylvania Right To Know

Acrylic copolymer

2-Butoxyethanol 111-76-2 1-Methoxy-2-propanol acetate 108-65-6 1-Methoxy-2-propanol 107-98-2



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Acetonitrile 75-05-8

**New Jersey Right To Know** 

New Jersey Trade Secret Registry Number for the product (NJ TSRN) : 800963-5157

# 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 : On the inventory, or in compliance with the inventory

Section 4 / 12(b) : Not applicable

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

exempt

No substances are subject to a Significant New Use Rule.

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 : 18.00 %
NSN Filed : Schedule 9
Max. NSN Required : Schedule 10
Polymer

28.00 % Schedule 9 Schedule 10

#### **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.