

## DISPERBYK-2159

Product code: 000000000000116085

Version 2.0 SDB\_GB

Revision Date 10.03.2016

Print Date 22.11.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : DISPERBYK-2159

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Wetting & Dispersing Additive  
Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : BYK-Chemie GmbH  
Abelstrasse 45  
46483 Wesel  
Telephone : +49 281 670-0  
Telefax : +49 281 65735  
  
Information : Regulatory Affairs  
Telephone : +49 281 670-23532  
Telefax : +49 281 670-23533  
GHS.BYK@altana.com

#### 1.4 Emergency telephone number

GBK Gefahrgutbuero GmbH, Tel. +49 6132 84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids , Category 3 H226: Flammable liquid and vapour.

##### Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

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Precautionary statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of a copolymer with pigment affinic groups

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
2-methoxypropyl acetate	70657-70-4 274-724-2 /	R10 Repr.Cat.2; R61 Xi; R37	Flam. Liq. 3; H226 Repr. 1B; H360D STOT SE 3; H335	>= 0,1 - < 0,25
WEL substance :				
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9  01- 2119475791-29	R10	Flam. Liq. 3; H226	>= 30 - < 50

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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.

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- |                         |   |
|-------------------------|---|
| If inhaled              | : If unconscious place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : Flush eyes with water as a precaution.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.       |

### 4.2 Most important symptoms and effects, both acute and delayed

- |          |                             |
|----------|-----------------------------|
| Symptoms | : No information available. |
| Risks    | : No information available. |

### 4.3 Indication of any immediate medical attention and special treatment needed

- |           |                             |
|-----------|-----------------------------|
| Treatment | : No information available. |
|-----------|-----------------------------|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media | : High volume water jet   |

### 5.2 Special hazards arising from the substance or mixture

- |                                      |  |
|--------------------------------------|--|
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses.<br><br>Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products        | : Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )  |

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

- 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.

### 6.3 Methods and material for containment and cleaning up

- Methods for 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).

### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
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.

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Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-methoxy-1-methylethyl acetate	108-65-6	TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 274 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

2-methoxy-1-methylethyl acetate : End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 153,5 mg/kg

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End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 275 mg/m<sup>3</sup>  
End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 54,8 mg/kg  
End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 33 mg/m<sup>3</sup>  
End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 1,67 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-methoxy-1-methylethyl acetate : Fresh water  
Value: 0,635 mg/l  
Marine water  
Value: 0,0635 mg/l  
Intermittent releases  
Value: 6,35 mg/l  
Sewage treatment plant  
Value: 100 mg/l  
Fresh water sediment  
Value: 3,29 mg/kg  
Marine sediment  
Value: 0,329 mg/kg  
Soil  
Value: 0,29 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : butyl-rubber  
Break through time : > 480 min

Remarks : The suitability for a specific workplace should be discussed  
with the producers of the protective gloves.

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

### Environmental exposure controls

General advice : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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If the product contaminates rivers and lakes or drains inform  
respective authorities.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: viscous liquid
Colour	: yellow - brown
Odour	: characteristic
Melting point/range	: < 5 °C
Initial boiling point	: > 100 °C
Flash point	: 45 °C Method: 48 (Abel-Pensky)
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 3,1 hPa (20 °C)
Density	: 1,046 g/cm <sup>3</sup> (20 °C, 1.013 hPa) Method: 4 (20°C oscillating U-tube)
Bulk density	: Not applicable
Solubility(ies) Water solubility	: insoluble
Auto-ignition temperature	: > 200 °C Method: DIN 51 794/ DIN prEN 14 522
Viscosity Viscosity, dynamic	: No data available

#### 9.2 Other information

Surface tension	: not determined
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents  
Strong acids

#### 10.6 Hazardous decomposition products

None known.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: No data available

##### Components:

##### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

##### Skin corrosion/irritation

##### Product:

Remarks: No data available

##### Components:

##### **2-methoxy-1-methylethyl acetate:**

Species: Rabbit  
Method: OECD Test Guideline 404



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Result: No skin irritation  
GLP: yes

### Serious eye damage/eye irritation

**Product:**

Remarks: No data available

### Respiratory or skin sensitisation

**Product:**

Remarks: No data available

### Repeated dose toxicity

**Product:**

Remarks: No data available

### Further information

**Product:**

Remarks: Solvents may degrease the skin.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: No data available

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

### 12.2 Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

**Components:**

**2-methoxy-1-methylethyl acetate:**

Biodegradability : Result: Readily biodegradable  
Method: OECD Test Guideline 301F  
GLP: yes

### 12.3 Bioaccumulative potential

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Bioaccumulation : Remarks: No data available

### Components:

#### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n- : log Pow: 1,2 (20 °C)  
octanol/water pH: 6,8  
Method: OECD Test Guideline 117  
GLP: yes

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### Product:

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..

### **12.6 Other adverse effects**

#### Product:

Additional ecological : Remarks: No data available  
information

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : 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**

### **14.1 UN number**

ADR/RID : UN 3272  
IMDG : UN 3272  
IATA : UN 3272

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### 14.2 UN proper shipping name

**ADR/RID** : ESTERS, N.O.S.  
(1-Methoxy-2-propanol acetate)

**IMDG** : ESTERS, N.O.S.  
(1-Methoxy-2-propanol acetate)

**IATA** : Esters, n.o.s.  
(1-Methoxy-2-propanol acetate)

### 14.3 Transport hazard class(es)

**ADR/RID** : 3

**IMDG** : 3

**IATA** : 3

### 14.4 Packing group

**ADR/RID**

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

Tunnel restriction code : D/E

**IMDG**

Packing group : III

Labels : 3

EmS Code : F-E, S-D

Remarks : IMDG Code segregation group - none

**IATA**

Packing instruction (cargo aircraft) : 366

Packing instruction (passenger aircraft) : 355

Packing group : III

Labels : Flammable liquid

### 14.5 Environmental hazards

**ADR /RID**

Environmentally hazardous : no

**IMDG**

Marine pollutant : no

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

#### 15.2 Chemical Safety Assessment

Not applicable

### SECTION 16: Other information

#### Full text of R-Phrases

R10	: Flammable.
R37	: Irritating to respiratory system.
R61	: May cause harm to the unborn child.

#### Full text of H-Statements

H226	: Flammable liquid and vapour.
H335	: May cause respiratory irritation.
H360D	: May damage the unborn child.

#### Full text of other abbreviations

Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
STOT SE	: Specific target organ toxicity - single exposure

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.