

DISPERBYK-168

Product code: 00000000000106028

Version

1.0 SDS_REG_UN

Revision Date:

20.04.2021

Date of last issue: -

Date of first issue: 20.04.2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DISPERBYK-168
Type of Application (Use) : Wetting & Dispersing Additive

Manufacturer or supplier's details

Company : BYK-Chemie GmbH
Address : Abelstrasse 45
46483 Wesel
Telephone : +49 281 670-23532
Telefax : +49 281 670-23533
E-mail address : GHS.BYK@altana.com

Emergency telephone number : Europe +44 1235 239670
Middle East/Africa +44 1235 239671
Americas +1 215 207 0061
East/South East Asia +65 3158 1074
(Local India: 000 800 100 7479)

2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Solution of modified polyurethane

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
maleic anhydride	108-31-6	< 0,1

4. FIRST AID MEASURES

General advice : Do not leave the victim unattended.

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If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	No information available. No information available.
Notes to physician	:	No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NO _x)
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
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- Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
maleic anhydride	108-31-6	TWA	0,01 mg/m ³	ACGIH

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection
Material : butyl-rubber
Break through time : 120,00 min
- Eye protection : Safety glasses
- Skin and body protection : Protective suit
- Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : yellow
- Odour : ester-like
- Odour Threshold : No data available
- pH : 6 (20 °C)
Concentration: 1 %
Method: Universal pH-value indicator
- Melting point/freezing point : < 5 °C
Method: derived

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Initial boiling point	:	200,00 °C Method: derived
Flash point	:	100,00 °C Method: 49 (Pensky-Martens)
Evaporation rate	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 1 hPa (20,00 °C) Method: derived
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,1100 g/cm ³ (20,00 °C) Method: 4 (20°C oscillating U-tube)
Bulk density	:	Not applicable
Solubility(ies)	:	
Water solubility	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	> 200 °C Method: DIN 51794
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Surface tension	:	No data available

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	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents Acids Bases
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:****maleic anhydride:**

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg
GLP: No information available.

Skin corrosion/irritation**Components:****maleic anhydride:**

Species: Rabbit
Method: No information available.
Result: Corrosive to skin
GLP: no

Serious eye damage/eye irritation**Components:****maleic anhydride:**

Species: Rabbit
Result: Corrosive to eyes
GLP: yes

Respiratory or skin sensitisation**Product:**

Remarks: No data available

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Components:**maleic anhydride:**

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Causes sensitisation.

GLP: yes

Repeated dose toxicity**Product:**

Remarks: No data available

Further information**Product:**

Remarks: No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish

:

Remarks: No data available

Components:**maleic anhydride:**

Toxicity to fish

:

LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l

Exposure time: 96 h

Test Type: static test

GLP: no

Toxicity to daphnia and other
aquatic invertebrates

:

EC50 (Daphnia magna (Water flea)): 42,81 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae

:

ErC50 (Pseudokirchneriella subcapitata): 74,35 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
GLP: no

Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Components:**maleic anhydride:**Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301B
GLP: yes**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

Components:**maleic anhydride:**Partition coefficient: n-octanol/water : log Pow: -2,61 (19,8 °C)
pH: 4 - 9
Method: OECD Test Guideline 107
GLP: yes**Mobility in soil****Components:****maleic anhydride:**

Distribution among environmental compartments : Koc: 42, log Koc: 1,63

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.

Additional ecological information : No data available

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13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC CodeNot applicable for product as supplied.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture**

16. OTHER INFORMATION

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