

## BYK-MAX CT 4270

Product code: 000000000000156543

Version  
3.3 SDS\_REG\_UNRevision Date:  
29.01.2024Date of last issue: 19.08.2022  
Date of first issue: 28.12.2016**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : BYK-MAX CT 4270

Type of Application (Use) : Polymer Additive

**Manufacturer or supplier's details**

Company : BYK-Chemie GmbH

Address : Abelstrasse 45  
46483 Wesel

Telephone : +49 281 670-23532

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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**

Carcinogenicity : Category 1A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H350 May cause cancer.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture  
Chemical nature : Organophilic phyllosilicate

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 0,5 - < 1

**4. FIRST AID MEASURES**

General advice : Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
If breathed in, move person into fresh air.

In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.  
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.  
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : No information available.  
No information available.

Notes to physician : Treat symptomatically.

**5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Water mist

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Unsuitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ) High volume water jet
Specific hazards during fire-fighting	: Dust can form an explosive mixture in air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Hazardous decomposition products formed under fire conditions.
Hazardous combustion products	: Carbon oxides Nitrogen oxides (NO <sub>x</sub> )
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**

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
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.
Methods and materials for containment and cleaning up	: Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.  Use explosion-proof ventilating equipment.
Advice on safe handling	: Avoid formation of respirable particles. Do not breathe vapours/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable fraction)	0,025 mg/m <sup>3</sup> (Silica)	ACGIH

- Engineering measures** : Use explosion-proof ventilating equipment.  
Maintain air concentrations below occupational exposure standards.
- Filter type : Filter type P
- Hygiene measures :

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : powder
- Colour : off-white
- Odour : odourless
- Odour Threshold : Not applicable
- pH : 4 - 6 (20 °C)  
Concentration: 1 %  
Method: Universal pH-value indicator
- Melting point/range : Not applicable
- Boiling point/boiling range : Not applicable
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : May form combustible dust concentrations in air.
- Upper explosion limit : Not applicable
- Lower explosion limit : 180 - 200 g/m<sup>3</sup>
- Vapour pressure : Not applicable
- Relative vapour density : Not applicable
- Relative density : No data available
- Density : 1,6 g/cm<sup>3</sup> (20 °C, 1.013 hPa)
- Bulk density : 79 - 280 kg/m<sup>3</sup>

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	Pour density
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 310 - 320 °C Ignition temperature dust layer
	480 - 490 °C Ignition temperature dust cloud
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Minimum explosible dust concentration	: 180 - 200 g/m <sup>3</sup>
Dust deflagration index (Kst)	: 99 m.b./s
Dust explosion class	: St1
Minimum ignition energy	: > 1.000 mJ

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**10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Conditions to avoid	: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Keep away from open flames, hot surfaces and sources of ignition. Exposure to air or moisture over prolonged periods.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No decomposition if stored and applied as directed.

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**11. TOXICOLOGICAL INFORMATION**
**Acute toxicity****Product:**

Acute oral toxicity : Remarks: No data available

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**Skin corrosion/irritation**

**Product:**

Remarks: No data available

**Serious eye damage/eye irritation**

**Product:**

Remarks: No data available

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Carcinogenicity**

**Product:**

Remarks: No data available

**Reproductive toxicity**

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure**

**Product:**

Remarks: No data available

**STOT - repeated exposure**

**Product:**

Remarks: No data available

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**Repeated dose toxicity**

**Product:**

Remarks: No data available

**Aspiration toxicity**

**Product:**

No data available

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other :  
aquatic invertebrates 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**

No data available

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**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

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

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**14. TRANSPORT INFORMATION**

**International Regulations**

**UNRTDG**

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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 Code**

Not applicable for product as supplied.

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**15. REGULATORY INFORMATION**

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

Contact manufacturer.

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**16. OTHER INFORMATION**

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