

BYK-MAX CT 4255

Product code: 000000000000156838

Version

4.0 SDS_REG_UN

Revision Date:

23.10.2024

Date of last issue: 02.12.2022

Date of first issue: 25.04.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BYK-MAX CT 4255

Type of Application (Use) : Polymer Additive

Manufacturer or supplier's details

Company : BYK-Chemie GmbH

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46483 Wesel

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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

Specific target organ toxicity - repeated exposure : Category 1 (Lungs)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H350 May cause cancer.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

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 : Substance
Chemical nature : Organophilic phyllosilicate

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Quartz (SiO ₂)	14808-60-7	>= 1 - < 3

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 skin contact : Wash off with soap and plenty of water.
Wash contaminated clothing before re-use.
If skin irritation persists, call a physician.

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.

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

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water
Carbon dioxide (CO₂)

Unsuitable extinguishing media : 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 : Nitrogen oxides (NO_x)
Carbon oxides

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
No further information is available.

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.

Pick up and arrange disposal without creating dust.
Sweep up and shovel.

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.

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Advice on safe handling : Avoid spillage on floor as the product can become very slippery when wet.
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.

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 ₂)	14808-60-7	TWA (Respirable fraction)	0,025 mg/m ³ (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 : No data available

Boiling point/boiling range : No data available
Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit : Not applicable

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Lower explosion limit : 100 - 120 g/m³

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 1,6 g/cm³ (20 °C, 1.013 hPa)

Bulk density : 170 - 356 kg/m³
Pour density

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 280 - 290 °C
Ignition temperature dust layer
450 - 470 °C
Ignition temperature dust cloud

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Minimum explosible dust concentration : No data available

Dust deflagration index (Kst) : 164 m.b./s

Dust explosion class : St1

Minimum ignition energy : 25 - 50 mJ

10. STABILITY AND REACTIVITY

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 : Strong oxidizing agents

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Hazardous decomposition products : Strong acids
Strong bases
No decomposition if stored and applied as directed.

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

Acute oral toxicity : Remarks: No data available

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

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STOT - single exposure**Product:**

Remarks: No data available

STOT - repeated exposure**Product:**

Remarks: No data available

Aspiration toxicity**Product:**No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil**Product:**

Mobility : Remarks: Bentonite is almost insoluble and thus presents a low mobility in most soils

Other adverse effectsNo data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

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

Not regulated as a dangerous good

IATA-DGRNot regulated as a dangerous good

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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**Contact manufacturer.

16. OTHER INFORMATION

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