

## OPTIGEL-CK

Product code: 000000000000150431

Version

2.1 SDS\_REG\_UN

Revision Date:

24.04.2025

Date of last issue: 11.11.2022

Date of first issue: 14.12.2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : OPTIGEL-CK

Type of Application (Use) : Rheology 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**

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 : Substance  
Chemical nature : Modified / activated 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.

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

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.

Notes to physician : No information available.

**5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)

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- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : The product itself does not burn.
- 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.
- 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 : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
  
Neutralise with acid.  
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.
- 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<br>(Form of | Control parameters / Permissible | Basis |
|------------|---------|------------------------|----------------------------------|-------|
|------------|---------|------------------------|----------------------------------|-------|

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|                            |            | exposure)                 | concentration                       |       |
|----------------------------|------------|---------------------------|-------------------------------------|-------|
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA (Respirable fraction) | 0,025 mg/m <sup>3</sup><br>(Silica) | ACGIH |

**Engineering measures** : As a rule, at least 10 air changes per hour are recommended at the workplace.

**Personal protective equipment**

Filter type : Filter type P

Hand protection

Material : Protective gloves

Remarks : Use protective skin cream before handling the product.

Hygiene measures :

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder  
Colour : off-white  
Odour : odourless  
Odour Threshold : Not applicable

pH : 10,6 (23 °C)  
Concentration: 2 %

Melting point/ range : Not applicable

Boiling point/boiling range : Not applicable  
Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not expected to form explosive dust-air mixtures.  
Will not burn

Self-ignition : Not applicable

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Density : 2,60 g/cm<sup>3</sup> (20 °C, 1.013 hPa)

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Bulk density : 550 - 750 g/l

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data available

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

Ignition temperature : No data available

Decomposition temperature : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Minimum explosible dust concentration : Not applicable

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**10. STABILITY AND REACTIVITY**

Incompatible materials : None known.

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

**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

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**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

**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

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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**

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**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 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.