

## OPTIBENT-1248

Product code: 000000000000110622

Version

5.0 SDS\_REG\_UN

Revision Date:

17.11.2022

Date of last issue: 22.09.2020

Date of first issue: 22.12.2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : OPTIBENT-1248

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**

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

Carcinogenicity : Category 1A

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H350 May cause cancer.Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read

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and understood.

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:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337 + P313 If eye irritation persists: 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 : Mixture

Chemical nature : Modified / activated phyllosilicate

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
tetrasodium pyrophosphate	7722-88-5	>= 30 - < 50
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.

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Wash contaminated clothing before re-use.

- In case of eye contact : Immediately flush eye(s) with plenty of water.  
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.

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**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : The product itself does not burn.
- Hazardous combustion products : Carbon oxides  
Sulphur oxides  
Oxides of phosphorus
- 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.

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**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protection : Use personal protective equipment.

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tive equipment and emergency procedures

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

: Neutralise with acid.  
Keep in suitable, closed containers for disposal.

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**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 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

**Personal protective equipment**

Filter type : Filter type P

Protective measures

: Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

Hygiene measures

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	:	powder
Colour	:	off-white
Odour	:	odourless
Odour Threshold	:	Not applicable
pH	:	10,3 (23 °C) Concentration: 2 % Method: measured
Melting point/range	:	Not applicable
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	does not ignite
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	:	No data available
Bulk density	:	600 - 900 kg/m <sup>3</sup>
Solubility(ies)		
Water solubility	:	partly soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	Not applicable

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**10. STABILITY AND REACTIVITY**

Incompatible materials : Strong acids

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

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**Acute oral toxicity : Acute toxicity estimate: 1.667 mg/kg  
Method: Calculation method**Components:****tetrasodium pyrophosphate:**Acute oral toxicity : LD50 (Rat): > 300 - < 2.000 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes**Skin corrosion/irritation****Product:**

Remarks: No data available

**Components:****tetrasodium pyrophosphate:**

Result: No skin irritation

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

**Serious eye damage/eye irritation****Product:**

Species: Bovine corneal opacity and permeability assay (BCOP)

Method: OECD Test Guideline 437

Result: Eye irritation

GLP: yes

Remarks: Causes serious eye irritation.

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**Components:****tetrasodium pyrophosphate:**

Assessment: Risk of serious damage to eyes.

Result: Severe eye irritation

Species: Rabbit

Method: OECD Test Guideline 405

Result: Corrosive to eyes

GLP: yes

**Respiratory or skin sensitisation****Product:**

Remarks: No data available

**Components:****tetrasodium pyrophosphate:**

Test Type: Mouse Local Lymph Node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Not a skin sensitizer.

GLP: yes

**Repeated dose toxicity****Product:**

Remarks: 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

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Remarks: No data available

**Components:****tetrasodium pyrophosphate:**

Toxicity to fish

:

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h

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Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: yes

Toxicity to algae : ErC50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

NOEC ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Method: OECD Test Guideline 209  
GLP:

**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**

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.