

**OPTIGEL-WA**

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

**SECTION 1. IDENTIFICATION**

Product name : OPTIGEL-WA

**Manufacturer or supplier's details**Company : BYK USA LLC  
524 South Cherry Street  
Wallingford CT 06492

Telephone : (203) 265-2086

Visit our web site : [www.byk.com](http://www.byk.com)E-mail address : [BRIEF.BYK.NAFTA@altana.com](mailto:BRIEF.BYK.NAFTA@altana.com)Emergency telephone : 203-265-2086; CHEMTREC 1-800-424-9300 / +1  
number 703-527-3887**Recommended use of the chemical and restrictions on use**

Recommended use : Rheology Additive

Restrictions on use : Refer to Section 15 for any restrictions that may apply

**SECTION 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.  
**Storage:**  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
 Chemical nature : Phyllosilicate

### Hazardous components

Component	CAS-No.	Concentration (%)
Crystalline silica (quartz)	14808-60-7	>= 0.1 - < 1

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
 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.

## SECTION 5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing : No information available.

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

media	
Specific hazards during firefighting	: High volume water jet : Handle as an industrial chemical. Will not explode on mechanical impact. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon oxides
Further information	: 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.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Only qualified personnel equipped with suitable protective equipment may intervene.
	: 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).  Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling	: Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the
-------------------------	---

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

- 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.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Keep away from oxidizing agents.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Crystalline silica (quartz)	14808-60-7	TWA (total dust)	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable dust fraction)	0.1 mg/m <sup>3</sup>	OSHA P0
Crystalline silica (quartz)		TWA (Respirable fraction)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Crystalline silica (quartz)		TWA (Respirable dust)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL

OSHA has established an action limit of 0.025 mg/m<sup>3</sup> (8-hr TWA) and a permissible exposure limit of .05 mg/m<sup>3</sup> (8-hour TWA) for respirable crystalline silica.

Crystalline silica (quartz)	14808-60-7	TWA (total dust)	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
Crystalline silica (quartz)		TWA (respirable dust fraction)	0.1 mg/m <sup>3</sup>	OSHA P0
Crystalline silica (quartz)		TWA (Respirable fraction)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Crystalline silica (quartz)		TWA (Respirable)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

dust)

### Further occupational exposure limits

Description	Value type	Control parameters	Basis
inert or nuisance dust	TWA	50 Million particles per cubic foot total dust	OSHA Z-3
	TWA	15 mg/m <sup>3</sup> total dust	OSHA Z-3
	TWA	5 mg/m <sup>3</sup> respirable fraction	OSHA Z-3
	TWA	15 Million particles per cubic foot respirable fraction	OSHA Z-3

**Engineering measures** : Engineering and/or work practice controls should be implemented to maintain exposure to respirable crystalline silica below the permissible exposure limit.

### Personal protective equipment

**Respiratory protection** : Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator (NIOSH approved) or dust mask during exposure. In the case of dust or aerosol formation use respirator with an approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

**Hand protection**

Material : Neoprene

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection** : Eye wash bottle with pure water  
Tightly fitting safety goggles

**Skin and body protection** : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene measures** : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

**OPTIGEL-WA**

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

pH	: 7.8, Concentration: 2 % (73 °F (23 °C))
Melting point/range	: $\geq 1,832$ °F ( $\geq 1,000$ °C)
Boiling point/boiling range	: Not applicable
Vapour pressure	: Not applicable
Flash point	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not expected to form explosive dust-air mixtures.
Minimum Explosible Concentration	: Not applicable
Relative vapour density	: Not applicable
Relative Density/Specific Gravity	: No data available
Density	: 2.40 g/cm <sup>3</sup> (68 °F (20 °C))
Bulk density	: 400 - 600 kg/m <sup>3</sup>
Solubility(ies)	
Water solubility	: slightly soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Thermal decomposition	: Not applicable
Viscosity	
Viscosity, dynamic	: Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: Not classified as a reactivity hazard. No decomposition if stored and applied as directed.
------------	---

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

Chemical stability	:	Stable; polymerization will not occur No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No data available  No decomposition if stored and applied as directed.  Dust may form explosive mixture in air.
Conditions to avoid	:	No data available
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	No data available

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

##### Acute toxicity

###### Product:

Acute oral toxicity : Remarks: No data available

Acute toxicity estimate : 2,769 mg/kg  
Method: Calculation method

##### 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

##### Carcinogenicity

###### IARC

Group 1: Carcinogenic to humans

Crystalline silica (quartz)

14808-60-7

###### OSHA

OSHA specifically regulated carcinogen

Crystalline silica (quartz)

14808-60-7

**OPTIGEL-WA**

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

Known to be human carcinogen

Crystalline silica (quartz)

14808-60-7

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

Remarks: Long term inhalation of crystalline silica dusts may cause lung disease (silicosis). Epidemiological studies suggest that respirable crystalline silica has caused both immune system and kidney effects. The mechanisms causing these effects are unclear and a dose-response relationship has not been determined.

**Experience with human exposure**
**Product:**

Inhalation:

Symptoms:

Repeated inhalation of such dust may cause lung injury., Dust particles may cause irritation of the respiratory tract.

Skin contact:

Symptoms:

Contact may cause irritation.

Eye contact:

Symptoms:

Contact may cause irritation.

Ingestion:

Symptoms:

Ingestion will probably cause irritation of the digestive tract.

**Further information**
**Product:**

Remarks: No data available

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

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

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

#### Product:

Results of PBT and vPvB : This substance/mixture contains no components considered  
assessment : to be either persistent, bioaccumulative and toxic (PBT), or  
very persistent and very bioaccumulative (vPvB) at levels of  
0.1% or higher.

Regulation : 40 CFR Protection of Environment; Part 82 Protection of  
Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a  
Class I or Class II ODS as defined by the U.S. Clean Air Act  
Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological : No data available  
information

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

EPA Hazardous Waste : Not applicable.  
Code(s)

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with  
chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

**OPTIGEL-WA**

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

**SECTION 14. TRANSPORT INFORMATION****International Regulations****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.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know Act****US. EPA CERCLA Hazardous Substances (40 CFR 302)**

This material does not contain any components with a CERCLA RQ.

**SARA 304 - Emergency Release Notification**

This material does not contain any components with a section 304 EHS RQ.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

This material does not contain any components with a SARA 302 RQ.

**SARA 311/312 Hazards** : Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

## OPTIGEL-WA

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : No data available

### Massachusetts Right To Know

Crystalline silica (quartz) 14808-60-7

### Pennsylvania Right To Know

Phyllosilicate -

### New Jersey Right To Know

Phyllosilicate -

Crystalline silica (quartz) 14808-60-7

**New Jersey Trade Secret** : 800963-1089  
**Registry Number for the product (NJ TSRN)**

### California Prop. 65

**⚠ WARNING:** This product can expose you to chemicals including Crystalline silica (quartz), which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### The components of this product are reported in the following inventories:

TSCA : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

Section 5 : Not applicable

DSL : We certify that all of the components of this product are listed on the DSL.

## SECTION 16. OTHER INFORMATION

Revision Date : 05/12/2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

**OPTIGEL-WA**

Version 2

Revision Date 05/12/2022

Print Date 01/06/2026

specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.