

## CLAYTONE-VZ

Product code: 000000000000156393

Version

4.1 SDS\_REG\_UN

Revision Date:

19.05.2026

Date of last issue: 24.10.2024

Date of first issue: 01.08.2019

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : CLAYTONE-VZ

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

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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 <sub>2</sub> )	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 breathed in, move person into fresh air.  
 If unconscious, place in recovery position and seek medical advice.  
 If symptoms persist, 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.

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

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Notes to physician : No information available.

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**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water mist  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : 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.  
Dust can form an explosive mixture in air.  
Hazardous decomposition products formed under fire conditions.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Ammonia  
silicone compounds
- Specific extinguishing methods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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**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.
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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.
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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 particulate matter)	0,025 mg/m <sup>3</sup> (Silica)	ACGIH

Filter type : Filter type P  
 Hand protection  
 Material : Protective gloves  
 Hygiene measures :

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

pH : 6 - 8 (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.  
 Combustible Solids

Upper explosion limit : Not applicable  
 Lower explosion limit : 95 g/m<sup>3</sup>

Vapour pressure : Not applicable  
 Relative vapour density : Not applicable  
 Relative density : No data available

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Density	:	1,6 g/cm <sup>3</sup> (20 °C, 1.013 hPa)
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	275 °C Ignition temperature dust layer
		520 °C Ignition temperature dust cloud
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Dust deflagration index (Kst)	:	116 m.b_/s
Minimum ignition energy	:	40 mJ without inductivity

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**10. STABILITY AND REACTIVITY**

Conditions to avoid	:	Keep away from open flames, hot surfaces and sources of ignition. 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.
Incompatible materials	:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	:	No decomposition if used 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

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

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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**

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

Not regulated as a dangerous good

**IATA-DGR**Not 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 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**

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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.