

## CLAYTONE-PI

Product code: 000000000000129457

Version

4.0 SDS\_REG\_UN

Revision Date:

23.10.2024

Date of last issue: 11.11.2022

Date of first issue: 23.12.2016

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : CLAYTONE-PI

Type of Application (Use) : Rheology Additive

**Manufacturer or supplier's details**

Company : BYK USA LLC

Address : South Cherry Street 524  
06492 Wallingford

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Telefax :

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Middle East/Africa +44 1235 239671  
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(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 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 : None known.

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and effects, both acute and  
delayed

None known.

Notes to physician

: Treat symptomatically.

**5. FIREFIGHTING MEASURES**Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)Unsuitable extinguishing  
media : High volume water jetSpecific 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.  
Take measures to prevent the build up of electrostatic charge.Hazardous combustion prod-  
ucts : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)Specific extinguishing meth-  
ods : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.Special protective equipment : Wear self-contained breathing apparatus for firefighting if nec-  
essary.**6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protec-  
tive equipment and emer-  
gency 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.**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.

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 ap-  
plication area.

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

**Engineering measures** : Use explosion-proof ventilating equipment.  
Maintain air concentrations below occupational exposure standards.

Filter type : Filter type P

Hand protection : Protective gloves

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 : Not applicable

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Combustible Solids

Upper explosion limit : Not applicable

Lower explosion limit : 80 - 90 g/m<sup>3</sup>

Vapour pressure : Not applicable

Relative vapour density : Not applicable

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|  |   |  |
|--|---|--|
| Relative density                       | : | No data available  |
| Density                                | : | 1,4 - 1,8 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 bioaccumulation is to be expected.  |
| Ignition temperature                   | : | 230 - 240 °C<br>Ignition temperature dust layer<br><br>410 - 420 °C<br>Ignition temperature dust cloud |
| Decomposition temperature              | : | Not applicable   |
| Viscosity                              |   |  |
| Viscosity, dynamic                     | : | Not applicable   |
| Minimum explosible dust concentration  | : | 50 g/m <sup>3</sup>  |
| Dust deflagration index (Kst)          | : | 181 m.b./s   |
| Dust explosion class                   | : | St1  |
| Minimum ignition energy                | : | 10 - 30 mJ   |

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**10. STABILITY AND REACTIVITY**

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | Not classified as a reactivity hazard.  |
| Chemical stability                 | : | No decomposition if stored and applied as directed.<br>Stable   |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned.   |
| 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.<br>Keep away from open flames, hot surfaces and sources of ignition.<br>Exposure to air or moisture over prolonged periods. |
| Incompatible materials             | : | Strong oxidizing agents<br>Strong acids and strong bases  |
| Hazardous decomposition            | : | 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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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected.

**Mobility in soil**

**Product:**

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

**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.