

Safety Data Sheet  
According to Regulation (EC) No. 1907/2006 (reach)  
Revision Date: 30-Jun-2016  
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## SIHA Activebentonite G, SIHA Puranit UF

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product Identifier

Trade name / designation:

SIHA Activebentonite G, SIHA Puranit UF

#### Additional information:

The substance does not require registration according to REACH.;

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture:

Product for wine- and fruit juice treatment.

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier (manufacturer/importer/only representative/downstream used/distributor):

Blue H2O Filtration BHF Technologies

Unit 1, 11-13 Wells Road

VIC 3166 Oakleigh

Australia

[www.bhftechnologies.com.au](http://www.bhftechnologies.com.au)

**Telephone:** +61 (03) 9564 7029 (Business hours)

#### 1.4. Emergency telephone numbers

General emergency: 000

After hours emergency: 0401 446 119

Poisons information centre: 1800 251 525 or 131 126

Chemcall Australia: 1800 127 406

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

##### GHS classification:

Not hazardous.

Pictograms: Nil.

Signal word: Nil.

Hazard statements: Nil.

Precautionary statements: Nil

##### Additional information:

Additional information: Avoid inhalation and/or exceeding of occupational limit value.

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

#### 2.2 Label elements

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### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### Precautionary statements Prevention

P260.1	Do not breathe dusts or mists.
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### 2.3 Other hazards

#### Adverse physicochemical effects:

The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction - SWERF" method. All details about the SWERF method is available at [www.crystallinesilica.eu](http://www.crystallinesilica.eu). Depending on the handling and use (grinding, drying, bagging), airborne respirable dust may be generated. Dust contains respirable crystalline silica. Prolonged and or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimize or eliminate dust generation.

The substance does not meet the criteria for PBT or vPvB substance.

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

#### Description:

EC-No.: 215-108-5

CAS-No.: 1302-78-9

Synonyms: Bentonite, sodian; Bentonite, calcian; Montmorillonite, Sodium-activated Bentonite

Bentonite is a UVCB substance, sub-type 4. The purity of the product is 100 % w/w.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

Subsequently wash off with: Water and soap

#### After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion:

en/DE

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Rinse mouth immediately and drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder

#### Unsuitable extinguishing media:

High powder water jet

### 5.2. Special hazards arising from the substance or mixture

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### 5.4. Additional information

Special danger of slipping by leaking/spilling product.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Remove persons to safety. Wear personal protection equipment. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

No special environmental measures are necessary.

### 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Avoid dust formation. Use approved industrial vacuum cleaner for removal.

### 6.4. Reference to other sections

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No data available

### 6.5. Additional information

No data available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices of safe handling:

Avoid dust formation. Provide adequate ventilation as well as local exhaust at critical locations. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protection equipment. Handle and open container with care.

#### Fire prevent measures:

No special fire protection measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place.

Avoid dust formation. Prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

#### Hints on storage assembly:

Do not camp down with smell intensive materials. The material can adsorb smell-intensive material because of its big surface.

**Storage class:** 13 – Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

#### Recommendation:

not relevant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Avoid dust formation. Provide adequate ventilation as well as local exhaust at critical locations. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Tightly sealed safety glasses. Do not wear contact lenses.

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### Skin protection:

Protect skin by using skin protective cream.

Hand protection: The glove material has to be impermeable and resistant to the product/the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the

penetration times, rates of diffusion and the degradation.

Suitable material: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### Respiratory protection:

Respiratory protection necessary at: insufficient ventilation, dust formation, exceeding exposure limit values

Suitable respiratory protection apparatus: Filtering device (DIN EN 147) P 2

### Other protection measures:

Protective clothing: Wear suitable protective clothing.

General health and safety measures: Wash hands before breaks and after work.

Wash contaminated clothing prior to re-use.

### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

Limiting value of inert dust (alveolar content) : 3 mg/m<sup>3</sup> TRGS 900

Limiting value of inert dust (breathable content): 10 mg/m<sup>3</sup>

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** Granulate, Powder

**Colour:** grey; beige; light beige

**Odour:** characteristic

Safety relevant basis data

parameter		at °C	method	remark
pH	6 - 11	20°C	Water suspension	
Melting point/freezing point	>450 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C)	<i>not determined</i>			
Flash point	<i>not determined</i>			

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Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	2.6 g/cm <sup>3</sup>			
Bulk density	500 – 1,100 kg/m <sup>3</sup>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

Flammability/inflammability: not applicable  
Danger of explosion: not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Not known

### 10.4. Conditions to avoid

After contact with water: Special danger of slipping by leaking/spilling product

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Not relevant

## SECTION 11: Toxicological effects

### 11.1 Information on toxicological effects

CAS No.	Substance name	Toxicological information
1302-78-9	Bentonite	LD <sub>50</sub> oral: 2,000 mg/kg (Rat)

Skin corrosion/irritation:

Rabbit

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Not an irritant. OECD 404

### Eye damage/irritation:

Rabbit

Not an irritant. OECD 405

### Respiratory or skin sensitization:

no data available, Bentonite is considered not to be a skin sensitizer based on experience in handling and low absorption through the skin.

### Carcinogenicity:

Germ cell mutagenicity

Genotoxicity in vitro

In vitro gene mutation study in bacteria, Result: negative, OECD 471

In vitro chromosome aberration test, Result: negative, OECD 473

In vitro gene mutation study in mammalian cells, Result: negative, OECD 476

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity :

Based on available data, the classification criteria are not met.

STOT - single exposure:

Remarks: No organ toxicity observed in acute tests.

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity:

### Additional information:

Repeated dose toxicity (subacute, subchronic, chronic): No data available

Other information: Repeated exposure may cause skin dryness or cracking.

Other information: Further information:

Specific symptoms in animal studies (likely route of exposure):

In case of ingestion:

No acute or long term effects were seen in animal studies following oral exposure.

In case of skin contact:

No acute effects were seen in an animal study following acute dermal exposure.

Bentonite acid leached is not a skin irritant

In case of inhalation:

No acute effects were seen in an animal study following acute inhalation exposure.

Bentonite acid leached contains crystalline silica, which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-aramid Fibrils"), the International Agency for Research on cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans". In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Crystalline silica has also been classified by the German MAK Commission as a human carcinogen (Category A1).

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Although bentonite acid-leached contains quartz, an intratracheal study (Creutzenberg 2008) on the read across substance bentonite demonstrated significant differences in toxicity following administration of equivalent doses of quartz as either bentonite (15.2 mg of bentonite with 60% quartz) or reference quartz (10.5 mg of 87% quartz). The reference-quartz caused significant, self-perpetuating lung toxicity while bentonite demonstrated significantly less toxicity and partial recovery during the study period. The main effect of bentonite was slight fibrosis and inflammation of the lung. The study demonstrated that a simple bridging of toxicity data from quartz to bentonite acid-leached is not appropriate. Occupational exposure to respirable dust should be monitored and controlled.

## SECTION 12: Ecological information

### 12.1. Toxicity:

#### Aquatic toxicity:

Acute fish toxicity

LC50: 16 g/L , 96h, Oncorhynchus mykiss (Rainbow trout)

Acute Daphnia toxicity

EC50 > 100 mg/l, 48h, Daphnia magna , OECD 202

Algae toxicity

EC50 > 100 mg/l , 72h, Scenedesmus subspicatus

#### Terrestrial toxicity:

No data available

### 12.2. Persistence and degradability

#### Additional information:

Further ecological information: Biodegradability:

The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3. Bio accumulative potential

#### Accumulation /Evaluation:

not relevant: Product/Substance is inorganic.

### 12.4. Mobility in soil

The product is: practically insoluble

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



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The disposal of the product has to be carried out in accordance with the legal requirements. EWC waste codes are strictly industry-oriented, therefore waste classification has to be done by waste producer.

### Waste treatment options

#### Appropriate disposal /Package:

Non-contaminated packages may be recycled.

#### 13.2. Additional information

No data available

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations

#### 14.1. UN-No.

No relevant

#### 14.2. UN proper shipping name

No relevant

#### 14.3. Transport hazard class(es)

Not relevant

#### 14.4. Packing group

Not relevant

#### 14.5. Environmental hazards

Not relevant

#### 14.6. Special precautions for user

Not relevant

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

No data available

#### 15.1.2. National regulations

[DE] National regulations

#### Technische Anleitung Luft (TA-Luft)

##### Ziffer 1:

5.2.1

##### Remark:

TA-Luft Anteil 1: GW: 20 mg/m<sup>3</sup>

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### Water hazard class (WGK)

#### WGK:

nwg - nicht wassergefährdend

#### Source:

S Selbsteinstufung

#### Other regulations, restrictions and prohibition regulations

Chemical Safety Assessment

A hazard assessment has been conducted under the umbrella of the European Bentonite Association (EUBA) and the outcome was that bentonite is not a hazardous substances. Therefore, in absence of identified hazard, the substance is safe and presents no risk.

Training advice

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

#### 15.2. Chemical Safety Assessment

No data available

#### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]:

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

### 16.6. Training advice

No data available.

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.