

**Safety Data Sheet**  
**According to Regulation (EU) No.1907/2006, Annex II,**  
**According to Regulation (EU) No.1272/2008**  
**Amended by REGULATION (EU) No.453/2010**  
**Alkyl Quaternary Ammonium Bentonite**

SDS Record Number:CSSS-TCO-010-100375

Printing date:27/12/2010

Version 1.1

Revision date:27/12/2012

**1 Identification of the substance and of the company/undertaking**

**1.1 Product identifier:**

Identification on the label/Trade name: Alkyl Quaternary Ammonium Bentonite  
Additional identification: CP-982  
Identification of the product: CAS #68953-58-2; EC#273-219-4  
Index Number: Not available  
REACH registration No.: Not available

**1.2 Relevant identified uses of the substance and uses advised against:**

**1.2.1 Identified uses:**

Used as Rheological additive.

**1.2.2 Uses advised against:**

Not available.

**1.3 Details of the supplier of the safety data sheet:**

Supplier (Only representative): Chemical Inspection & Regulation Service Limited  
Supplier(Manufacturer): Zhejiang Camp-Shinning New Material CO.,LTD.  
Address: Room NO.401 BLDG Boutique,NO.1 Jingzhou Road, Hangzhou, Zhejiang, China  
Contact person(E-mail): Not available  
Telephone: +86-571-23617997  
Fax: +86-571-23659717

**1.4 Emergency telephone Number:**

+353 41 980 6916

Available outside office hours? YES  NO

**2 Hazards Identification**

**2.1 Classification of the substance**

**2.1.1 Classification:**

The substance is classified as following according to 67/548/EEC and REGULATION (EC)No1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
N/A	N/A

For full text of H-phrases: see section 2.2.

67/548/EEC	
Hazards characteristics	R-Phrases
N/A	N/A

For full text of R-phrases: see section 16.

**2.1.2 The most important adverse effects**

**2.1.2.1 The most important adverse physicochemical effects:**

Not applicable.

**2.1.2.2 The most important adverse human health effects:**

Not applicable.

**2.1.2.3 The most important adverse environmental effects:**

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Not applicable.

**2.2 Label elements:**

**Hazard Pictograms:** No hazard pictogram is used.

**Signal Word(S):** No signal word is used.

**Hazard Statement:** Not applicable.

**Precautionary Statement:** Not applicable

**2.3 Other hazards**

Not available (PBT, vPvB, Substance is an endocrine disruptor etc.)

**3 Composition/information on ingredients**

**Substance/Mixture:** Substance

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Alkyl Quaternary Ammonium Bentonite	N/A	68953-58-2	273-219-4	≥97%
Quartz(Crystalline silica)	N/A	1408-60-7	215-684-8	≤3%

**4 First aid measures**

**4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

**4.1.1 In case of inhalation:**

Remove person to fresh air, if breathing is difficult, provide Oxygen and seek medical attention.

**4.1.2 In case of skin contact:**

Wash with soap and water.

**4.1.3 In case of eyes contact:**

Rinse immediately with water for at least 15 minutes.

**4.1.4 In case of ingestion:**

Provide symptomatic treatment and seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

The product is not classified as harmful to human health effect.

**4.3 Indication of any immediate medical attention and special treatment needed**

If skin irritation or rash occurs, get medical advice/attention.

**5 Fire-Fighting measures**

**5.1 Extinguishing media:**

**Suitable extinguishing media:** Water fog, foam, dry chemical, or carbon dioxide.

**Unsuitable extinguishing media:** Not available.

**5.2 Special hazards arising from the substance or mixture**

Precautions for flammable organic dusts should be provided. Avoid high dust concentrations, Assure all equipment is properly to prevent static discharges, and vented to provide for potential energy release.

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**5.3 Advice for fire-fighters:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**6 Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**6.1.1 For non-emergency personnel:**

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact. Wear an air-purifying dust respirator and chemical gloves. Wear eye protection to prevent dust from entering the eyes.

**6.1.2 For emergency responders:**

Wear an air-purifying dust respirator and chemical gloves. Wear eye protection to prevent dust from entering the eyes. Use proper personal protective equipment as indicated in Section 8.

**6.2 Environmental Precautions:**

Avoid disposing into drainage/sewer system or directly into the aquatic environment. Keeping away from drains, surface- and ground-water and soil.

**6.3 Methods for Containment and Cleaning up:**

Minimize dusting. Caution: May cause a slippery condition when wet. Sweep/shovel material into a drum for re-use or disposal.

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment

See Section 13 for information on disposal

**6.5 Additional information:**

Wet clean or vacuum up solids.

Don't use a brush or compressed air for cleaning surfaces or clothing.

Clear spills immediately.

**7 Handling and storage**

**7.1 Precautions for safe handling:**

**7.1.1 Protective measures:**

Precaution for flammable organic dusts should be provided. Avoid high dust concentrations. Ensure all equipment is properly grounded to prevent static discharges, and vented to provide for potential energy release. Control high dust concentrations while handling through the use of Ventilation or other suitable controls.

**7.1.2 Advice on general occupational hygiene:**

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities:**

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

**7.3 Specific end use(s):**

Not applicable.

**8 Exposure control/personal protection**

**8.1 Control parameters:**

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**8.1.1 Occupational exposure limits:** ACGIH-TLV 8hr; TWA:10mg/m<sup>3</sup>, inhalable fraction; OSHA-PEL 8hr. TWA Dusts  
10mg/m<sup>3</sup> classified.

**8.1.2 Additional exposure limits under the conditions of use:** Not available.

**8.1.3 DNE/DMEL and PNEC-Values:** Not available.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls:

Use local exhaust ventilation if airborne concentrations are above recommended exposure limits.

#### 8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses/gloves.

Hand protection: Use chemical resistant goggles.

Body protection: Protective garments not normally required.

Respiratory protection: Use an air-purifying dust respirator if airborne concentration levels are above exposure limits

Thermal hazards: Wear suitable protective clothing to prevent heat.

#### 8.2.3 Environmental exposure controls:

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste.

According to local regulations. Federal and official regulations.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Light Cream Powder
Colour:	Light Cream
Odour:	Odourless
Odour threshold	Not available.
pH:	4-7
Melting point/range(°C):	Not available
Boiling point/range(°C):	Not available
Flash point(°C):	Not available
Evaporation rate:	Not applicable
Flammability (solid ,gas):	Not applicable
Ignition temperature(°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure(25°C):	Not available
Vapour density:	Not available
Relative Density(20°C):	1.65-1.75
Bulk density(kg/m <sup>3</sup> ):	Not available
Water solubility(g/l) at 20°C:	Insoluble in water
n-Octanol/Water(log Po/w):	Not determined
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic(Pa S):	Not available
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

### 9.2 Other information:

Fat solubility (solvent-oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available

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Oxidation-reduction Potential: Not available

Loss on Ignition( dry sample, 1000°C) 28-32%

### 10 Stability and reactivity

#### 10.1 Reactivity

The substance is stable under normal storage and handling conditions.

#### 10.2 Chemical stability:

Stable under normal temperatures and pressures.

#### 10.3 Possibility of hazardous reactions:

Under normal conditions, not hazardous reactions will occur.

#### 10.4 Conditions to avoid:

Incompatible materials, moisture.

#### 10.5 Incompatible materials:

Strong oxidizing agents. Strong acids.

#### 10.6 Hazardous decomposition products:

In case of fire, possible emission of carbon monoxide, carbon dioxide, organic chlorides and ammonia.

### 11 Toxicological information

#### 11.1 Toxicokinetics, metabolism and distribution

**Non-human toxicological data:** Not available

**Method:** Not available

**Dosis:** Not available

**Routes of administration:** Not available

**Results:** Not available

**Absorption:** Not available

**Distribution:** Not available

**Metabolism:** Not available

**Excretion:** Not available

#### 11.2 Information on toxicological effects

##### Acute toxicity:

LD50 (Oral, Rat): 20,000mg/kg

LD50 (Dermal Rabbit): Not available

LD50 (Inhalation, Rat): Not available

**Skin corrosion/Irritation:** No irritating.

**Serious eye damage/irritation:** No irritating.

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

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<b>Reproductive toxicity:</b>	Not classified
<b>STOT-single exposure:</b>	Not classified
<b>STOT-repeated exposure:</b>	Not classified
<b>Aspiration hazard:</b>	Not classified

### 12 Ecological information

#### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD203	N/A	N/A
LC50	>30,000mg/l	48h	Daphnia	OECE202	N/A	N/A
EC50	>10,000mg/l	96h	Algae	OECE201	N/A	N/A

**Persistence and degradability:** Biodegradability: Insignificant Degradability

**Bioaccumulative potential:** No data available.

**Mobility in soil:** Not available.

**Results of PBT & vPvB assessment:** Not applicable.

**Other adverse effects:** Not applicable.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

Dispose of in accordance with local regulations, Use licensed waste Handler.

#### 13.2 Product / Packaging disposal:

Dispose of in accordance with local regulations, Use licensed waste Handler.

### 14 Transport information

	Land transport(ADR/RID)	Sea transport(OMDG)	Air transport(ICAO/IATA)
<b>UN-Number:</b>	Not regulated	Not regulated	Not regulated
<b>UN Proper shipping name:</b>	Not regulated	Not regulated	Not regulated
<b>Transport hazard Class:</b>	Not regulated	Not regulated	Not regulated
<b>Packaging group:</b>	Not regulated	Not regulated	Not regulated
<b>Environmental hazards:</b>	Not regulated	Not regulated	Not regulated
<b>Special precautions for user:</b>	See section 2.2	See section 2.2	See section 2.2
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated	Not regulated	Not regulated

### 15 Regulation information

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

**Relevant information regarding authorization:** Not applicable.

**Relevant information regarding restriction:** Not applicable.

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**Other EU regulations:**

Employment restrictions concerning young person must be observed.

For use only by technically qualified individuals.

**Other National regulations:**

Not applicable

**Chemical Safety Assessment has been carried out?**

YES

NO

### **16 Other information**

**16.1 Indication of changes**

Version 1.1 Amended by EU No 453/2010

**16.2 Relevant R-phrases(number and full text):**

Not applicable.

**16.3 Training instructions:**

Not applicable.

**16.4 Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**16.5 Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.