



# SAFETY DATA SHEET

P.O. BOX 1603  
EUNICE, LA 70535  
866-457-0064 or 337-457-0064

## BARITE

SDS No. PID2049    Revision date    23/Oct/2015  
Version 8        Supersedes date    29/Sep/2014

### 1. - IDENTIFICATION

#### 1.1 Product identifier

**Product name:** BARITE (all grades)  
**Product code:** PID2049

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

**Recommended Use:** Drilling fluid additive. Weighting agent  
**Uses advised against:** Consumer use

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

##### Distributor information:

**Company name** Delta Drilling Products & Services, LLC  
**Address** 154 Eastpark Drive  
Eunice, LA 70535  
**Telephone** (866) 457-0064 or (337) 457-0064  
**E-mail** deltaproducts@bellsouth.net

##### Prepared by

Global Regulatory Compliance – Chemicals (GRC – Chemicals), Bethicia Prasek

#### 1.4 Emergency Telephone Number

**Emergency Telephone:** (24 Hour) Australia +61 2801 44558, Asia Pacific +65 3158 1074, China +86 10 5100 3039, Europe +44 (0) 1235 239 670, Middle East and Africa +44 (0) 1235 239 671, New Zealand +64 9929 1483, USA 001 281 561 1600

### 2. HAZARD(S) IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### GHS – Classification

##### Health hazards

Carcinogenicity

Category 1A

##### Environmental hazards

Not classified

##### Physical Hazards

Not classified

#### 2.2 Label elements



##### Signal Word

DANGER

##### Hazard statements

H350 – May cause cancer

### **Precautionary statements**

- P201 – Obtain special instructions before use
- P260 – Do not breathe dust/fume/gas/mist/vapors/spray
- P281 – Use personal protective equipment as required
- P308 + P313 – IF EXPOSED OR CONCERNED: Get medical advice/attention

### **Supplementary precautionary statements**

- P202 – Do not handle until all safety precautions have been read and understood
- P314 – Get medical advice/attention if you feel unwell
- P501 – Dispose of contents/container to an approved waste disposal plant

**Unknown acute toxicity**                      0% of the mixture consists of ingredient(s) of unknown toxicity.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

<b>Component</b>	<b>CAS Number</b>	<b>Weight % - range</b>
Crystalline silica (impurity)	14808-60-7	1-5

### **3.2 Mixtures**

Not Applicable

### **Comments**

Crystalline silica is the most widely occurring of all minerals. The most common form of silica is sand. The International Agency for Research on Cancer (IARC) has designated crystalline silica in the form of quartz or cristobalite a Group 1 (carcinogenic to humans). This designation was based on an increased risk of lung cancer among crystalline silica exposed workers. IARC did note that carcinogenicity of crystalline silica in humans was not detected in all industrial circumstances studied. Further, carcinogenicity of crystalline silica may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of polymorphs. (IARC Vol. 68, 1997, p. 41). The National Toxicology Program (NTP) classifies crystalline silica as “reasonably anticipated to cause cancer in humans” (6th Annual Report on Carcinogens, 1991). Long term inhalation of crystalline silica can also result in the lung disease, silicosis. Symptoms of this disease include coughing and shortness of breath. (NJ HSFS, January 1996)

## **4. FIRST-AID MEASURES**

### **4.1 First-Aid Measures**

- Inhalation**                      Move to fresh air. If breathing is difficult, (trained personnel should) give oxygen. Get medical attention immediately if symptoms occur.
- Ingestion**                      Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
- Skin contact**                      Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation persists.
- Eye contact**                      Promptly wash eyes with lots of water while lifting eye lids. Remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

#### **Main symptoms**

- Inhalation**                      Please see Section 11. Toxicological Information for further information.
- Ingestion**                      Please see Section 11. Toxicological Information for further information.
- Skin contact**                      Please see Section 11. Toxicological Information for further information.
- Eye contact**                      Please see Section 11. Toxicological Information for further information.

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

**Notes to physician**                      Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Water Fog, Alcohol Foam, CO<sub>2</sub>, Dry Chemical.

#### **Extinguishing media which shall not be used for safety reason**

None known

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

#### **Unusual fire and explosion hazards**

None known.

#### **Hazardous combustion products**

None under normal use conditions.

### 5.3 Advice for firefighters

#### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

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

Wear suitable protective equipment. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Avoid dust formation.

### 6.2 Environmental precautions

Do not allow material to contaminate ground water system.

#### **Environmental exposure controls**

No information available.

### 6.3 Methods and materials for containment and cleaning up

#### **Methods for containment**

Cover powder spill with plastic sheet or tarp to minimize spreading.

#### **Methods for cleaning up**

Soak up with inert absorbent materials (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

No information available.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### **Handling**

Avoid breathing dust; if exposed to high dust concentration, leave area immediately. Avoid contact with skin, eyes and clothing.

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

#### **Technical measures/precautions**

Ensure adequate ventilation.

#### **Storage precautions**

Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

## Component Information

Component	ACGIH TLV	OSHA PEL
Crystalline silican (impurity) 14808-60-7 (1-5)	0.025 mg/m <sup>3</sup>	Not Determined

### Crystalline silica (impurity)

OSHA – Final PELs – Table Z-3 Mineral Dusts

(30)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, total dust; (250)/(%SiO<sub>2</sub> + 5) mppcf TWA, respirable fraction; (10)/(%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> TWA, respirable fraction

## 8.2 Exposure controls

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation

### Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

<b>Eye protection</b>	Tightly fitting safety goggles.
<b>Hand protection</b>	Wear chemical resistant gloves such as nitrile or neoprene.
<b>Respiratory protection</b>	All respiratory protection equipment should be used within a comprehensive respiratory protection program that meets the requirements of 29 CFR 1910.134 (U.S. OSHA Respiratory Protection Standard) or local equivalent. Use NIOSH approved respirator with dust and mist protection (3M 8210). If dust concentration exceeds 5 times the exposure limit, wear an approved HEPA respirator

### Hygiene measures

Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Opaque
<b>Color</b>	Tan – Gray
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	Not applicable	
<b>pH @ dilution</b>	No information available	
<b>Melting/freezing point</b>	No information available	
<b>Boiling Point/range</b>	No information available	
<b>Flash point</b>	Not Applicable	
<b>Evaporation rate (BuAc =1)</b>	No information available	
<b>Flammability (solid, gas)</b>	Not Applicable	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific gravity</b>	4.2	
<b>Bulk density</b>	No information available	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	No information available	

<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Log Pow</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

## 9.2 Other information

<b>Pour Point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content(%)</b>	No information available
<b>Density</b>	No information available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards associated with this product.

### 10.2 Chemical stability

Stable. Hazardous polymerization does not occur.

### 10.3 Possibility of Hazardous Reactions

#### Hazardous polymerization

Hazardous polymerization does not occur.

#### Hazardous Reactions

None known.

### 10.4 Conditions to avoid

None known.

### 10.5 Incompatible materials

No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

See Section 5.2.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Inhalation

Inhalation of dust in high concentration may cause irritation of respiratory system. Repeated or prolonged inhalation of crystalline silica dust can cause delayed lung injury, and other diseases, including silicosis and lung cancer.

##### Eye Contact

Dust contact with the eyes can lead to mechanical irritation.

##### Skin Contact

Repeated exposure may cause skin dryness or cracking.

##### Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Crystalline silica (impurity)	=500 mg/kg (Rat)	No data available	No data available

Component	IARC Group 1 or 2	ACGIH - Carcinogens	OSHA Listed carcinogens	NTP
Crystalline silica (impurity)	Group 1; Monograph 100C [in preparation] Group 1; Monograph 68 [1997] Monograph 100c [in preparation] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]	A2 Suspected Human Carcinogen	Present	Known Human Carcinogen

<b>Sensitization</b>	This product does not contain any components suspected to be sensitizing.
<b>Mutagenic effects</b>	No evidence of mutagenic properties.
<b>Carcinogenicity</b>	Contains a known or suspected carcinogen. Crystalline silica dust is listed by IARC in Group 1 as known to cause lung cancer in humans, if inhaled.
<b>Reproductive Toxicity</b>	No evidence of toxicity to reproduction.
<b>Developmental toxicity</b>	Not known to cause birth defects or have a deleterious effect on a developing fetus.
<b>Routes of exposure</b>	Skin contact. Inhalation. Eye contact.
<b>Routes of entry</b>	Inhalation
<b>Specific target organ toxicity (single exposure)</b>	Not classified
<b>Specific target organ toxicity (repeated exposure)</b>	Not classified.
<b>Target organ effects</b>	Respiratory system. Lungs.
<b>Aspiration hazard</b>	Not Applicable.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### **Toxicity to algae**

See component information below.

#### **Toxicity to fish**

See component information below.

#### **Toxicity to daphnia and other aquatic invertebrates**

See component information below.

Component	Toxicity to fish	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates
Crystalline silica (impurity)	No information available	No information available	No information available

### 12.2 Persistence and degradability

No product level data available.

### 12.3 Bioaccumulative potential

No product level data available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

#### 12.6 Other adverse effects.

None known.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Disposal Method** Disposal should be made in accordance with federal, state and local regulations.

**Contaminated packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

#### 14.1 UN Number

**UN No. (DOT)** Not regulated

**UN No. (TDG)** Not regulated

**UN/ID No. (ADR/RID/ADN/ADG)** Not regulated

**UN No. (IMDG)** Not regulated

**UN No. (ICAO)** Not regulated

#### 14.2 Proper shipping name

This product is not covered by international regulation on the transport of dangerous goods

#### 14.3 Hazard class(es)

**DOT Hazard class** Not regulated

**TDG Hazard class** Not regulated

**ADR/RID/ADN/ADG Hazard class** Not regulated

**IMDG Hazard class** Not regulated

**ICAO Hazard class/division** Not regulated

#### 14.4 Packing group

**DOT Packing group** Not regulated

**TDG Packing group** Not regulated

**ADR/RID/ADN/ADG Packing group** Not regulated

**IMDG Packing group** Not regulated

**ICAO Packing group** Not regulated

#### 14.5 Environmental hazard

No

#### 14.6 Special precautions

Not applicable

### 15. REGULATORY INFORMATION

#### International inventories

**USA (TSCA)** Complies

**Canada (DSL)** Complies

**European Union (EINECS and ELINCS)** Complies

**Philippines (PICCS)** Complies

**Japan (ENCS)** Complies

**China (IECSC)** Complies

**Australia (AICS)** Complies

**Korean (KECL)** Complies

**New Zealand (NZIoC)** Complies

## U.S. Federal and State Regulations

### **SARA 311/312 Hazard Categories**

Delayed (chronic) health hazard.

<b>Component</b>	<b>SARA 302 / TPQs</b>	<b>SARA 313</b>	<b>CERCLA RQ</b>
Crystalline silica (impurity)	N/A	N/A	N/A

### **State Comments**

Proposition 65: This product contains chemical(s) considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 to cause cancer and/or reproductive toxicity. See table under U.S. Federal and State Regulations for the specific chemicals.

**Silica, crystalline, quartz**  
carcinogen

### **Canadian Classification**

This Safety Data Sheet has been prepared in compliance with the Hazardous Products Regulations.

## **16. OTHER INFORMATION**

<b>Supersedes date</b>	29/Sep/2014
<b>Revision date</b>	23/Oct/2015
<b>Version</b>	8
<b>The following sections have been revised</b>	1, 2 ,3, 5, 9, 11, 12, 14, 15, 16.
<b>HMIS classification</b>	
Health	1*
Flammability	0
Physical hazard	0

N/A – Not Applicable, N/D – Not Determined.

### **Disclaimer**

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