

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **SHEPPEY LONDON CLAY**

Revision Date: 23-Nov-2010

Revision Number: 3

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifier****Product Name** SHEPPEY LONDON CLAY**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Weight Additive**Uses Advised Against** No information available**Details of the supplier of the safety data sheet**

Halliburton Energy Services  
Halliburton House, Howemoss Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-Mail address:** [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

**Emergency telephone §45 - (EC)1272/2008**

<b>Europe</b>	<b>112</b>
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): + 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

### **2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Carcinogenicity	Category 1A - (H350)
Specific Target Organ Toxicity - (Repeated Exposure)	Category 1 - (H372)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

For the full text of the R-phrases mentioned in this Section, see Section 16

## 2. HAZARDS IDENTIFICATION

**Classification** Crystalline silica is not classified as a carcinogen in EU Council Directives 67/548/EEC and 88/379/EEC.

**Risk Phrases** None

### Label Elements

#### Hazard Pictograms



**Signal Word** Danger

#### Hazard Statements

H350i - May cause cancer by inhalation

H372 - Causes damage to organs through prolonged or repeated exposure

#### Contains

##### Substances

Smectite clay

Illite

Kaolinite

Chlorite

Crystalline silica, cristobalite

Crystalline silica, tridymite

Crystalline silica, quartz

##### CAS Number

12199-37-0

12173-60-3

1318-74-7

1318-59-8

14464-46-1

15468-32-3

14808-60-7

#### Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

#### Other Hazards

None known

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Smectite clay	Not applicable	12199-37-0	60 - 100%	Not applicable	Not applicable	No data available
Illite	Not applicable	12173-60-3	5 - 10%	Not applicable	Not applicable	No data available
Kaolinite	215-286-4	1318-74-7	5 - 10%	Not applicable	Not applicable	No data available
Chlorite	215-285-9	1318-59-8	1 - 5%	Not applicable	Not applicable	No data available
Crystalline silica, cristobalite	238-455-4	14464-46-1	0 - 1%	Not applicable	Carc. 1A (H350i) STOT RE 1 (H372)	No data available
Crystalline silica, tridymite	239-487-1	15468-32-3	0 - 1%	Not applicable	Carc. 1A (H350i) STOT RE 1 (H372)	No data available
Crystalline silica, quartz	238-878-4	14808-60-7	< 3	Not applicable	Carc. 1A (H350i) STOT RE 1 (H372)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

##### Eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

##### Skin

Wash with soap and water. Get medical attention if irritation persists.

##### Ingestion

Under normal conditions, first aid procedures are not required.

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

May cause eye irritation.

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

##### Notes to Physician

Treat symptomatically

### 5. FIREFIGHTING MEASURES

#### Extinguishing media

##### Suitable Extinguishing Media

All standard fire fighting media

##### Extinguishing media which must not be used for safety reasons

None known.

#### Special hazards arising from the substance of mixture

##### Special Exposure Hazards

Not applicable.

#### Advice for firefighters

##### Special Protective Equipment for Fire-Fighters

Not applicable.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

#### Environmental precautions

None known.

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

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

**Reference to other sections**

See Section 12 for additional information.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

**Specific End Use(s)****Exposure Scenario**

No information available

**Other Guidelines**

No information available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Smectite clay	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Illite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Kaolinite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chlorite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Crystalline silica, cristobalite	Not applicable	0.1 mg/m <sup>3</sup>	0,075 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	0,15 mg/m <sup>3</sup>
Crystalline silica, tridymite	Not applicable	0.1 mg/m <sup>3</sup>	0,075 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	Not applicable
Crystalline silica, quartz	Not applicable	0.1 mg/m <sup>3</sup>	0,075 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	0,15 mg/m <sup>3</sup>

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Smectite clay	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Illite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Kaolinite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Chlorite	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Crystalline silica, cristobalite	Not applicable	2 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	Not applicable
Crystalline silica, tridymite	Not applicable	2 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	Not applicable
Crystalline silica, quartz	Not applicable	2 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>	Not applicable	Not applicable

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**Exposure controls****Engineering Controls**

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits listed in Section 2.

**Personal protective equipment****Respiratory Protection**

Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or equivalent respirator when using this product.

**Hand Protection****Skin Protection**

Normal work gloves.

Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

**Eye Protection****Other Precautions**

Wear safety glasses or goggles to protect against exposure.

None known.

**Environmental Exposure Controls**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State:** Solid  
**Odor:** Odorless

**Color:** Brown to Gray  
**Odor Threshold:** No information available

Property  
Remarks/ Method

Values

<b>pH:</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Freezing Point/Range (C):</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	Insoluble in water
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

### Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

Will Not Occur

### Conditions to Avoid

None anticipated

### Incompatible Materials

Hydrofluoric acid.

### Hazardous Decomposition Products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### **Inhalation**

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

##### **Eye Contact**

May cause eye irritation.

##### **Skin Contact**

May cause mechanical skin irritation.

##### **Ingestion**

None known

## 11. TOXICOLOGICAL INFORMATION

**Chronic Effects/Carcinogenicity** Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

**Cancer Status:** The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Smectite clay	No data available	No data available	No data available
Illite	No data available	No data available	No data available
Kaolinite	No data available	No data available	No data available
Chlorite	No data available	No data available	No data available
Crystalline silica, cristobalite	No data available	No data available	No data available
Crystalline silica, tridymite	No data available	No data available	No data available
Crystalline silica, quartz	No data available	No data available	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity Ecotoxicity Effects

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Smectite clay	No information available	No information available	No information available	No information available
Illite	No information available	No information available	No information available	No information available
Kaolinite	No information available	No information available	No information available	No information available
Chlorite	No information available	No information available	No information available	No information available
Crystalline silica, cristobalite	No information available	No information available	No information available	No information available
Crystalline silica, tridymite	No information available	No information available	No information available	No information available
Crystalline silica, quartz	No information available	No information available	No information available	No information available

### Persistence and degradability No information available

### Bioaccumulative potential No information available

**Mobility in soil**

No information available

**Results of PBT and vPvB assessment**

No information available.

**Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal Method**

Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging**

Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION****IMDG/IMO**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**RID**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**ADR**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**IATA/ICAO**

**UN Number:** Not restricted.  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable

**Special Precautions for User**

None

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

Not applicable

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories****EINECS Inventory**

This product, and all its components, complies with EINECS

**US TSCA Inventory**

All components listed on inventory or are exempt.

**Canadian DSL Inventory**

All components listed on inventory or are exempt.

**Legend****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**Germany, Water Endangering  
Classes (WGK)**

WGK 0: Generally not water endangering.

**Chemical Safety Assessment**

No information available

<b>16. OTHER INFORMATION</b>
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**Full text of R-phrases referred to under Sections 2 and 3**

None

**Key literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)**Revision Date:** 23-Nov-2010**Revision Note** Not applicable**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer Statement**

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**End of Safety Data Sheet**