

Material Safety Data Sheet

(In compliance with Directive 2001/058/EC and Regulation (EC) 1907/2006)

Section I. Identification of the Substance/Preparation and of the Company/Undertaking

Trade Name	SEPIOLITE INDUSTRIAL SPILLAGE ABSORBENT		
Product Name	Sepiolite Clay	CAS #	63800-37-3
Chemical Name	Hydrated Magnesium Silicate	<u>Emergency Telephone</u>	+34 (91) 360.69.00 (Office hours)
Supplier	TOLSA UK, Ltd. West Carr Road Retford Nottinghamshire DN22 7ZF (United Kingdom)	Protective Clothing	
Manufacturer	TOLSA UK, Ltd. West Carr Road Retford Nottinghamshire DN22 7ZF (United Kingdom)	Material Uses	Absorbent/Carrier

Section II. Hazards Identification

Classification	These products are not dangerous preparations according to Directive 1999/45/EC. Constituents/compounds not listed in Annex VI of the Regulation (EC) 1982/2008.
Potential Adverse Human Health Effects	<p>Sepiolite produced by TOLSA has no carcinogenic effects as it has been demonstrated by epidemiological, <i>in vitro</i> and <i>in vivo</i> studies.</p> <p>These products may generate dust during handling and use. As any natural occurring mineral, sepiolite may contain quartz (crystalline silica). Long term overexposure to crystalline silica dust may cause silicosis. These products, because of their coarse particle size, have very low respirable fraction and the content in respirable crystalline silica is negligible.</p>
Potential Adverse Effects for Environment	No specific adverse effects are known
Target Organs	Eyes and Skin (irritation risk). Pulmonary System (irritation and chronic risk)

Protective Measures

In case of exposure to high level of airborne dust, it is recommended the use of safety glasses and approved dust respirator.

Use in well ventilated areas. Avoid breathing dust and contact with eyes.

Section III. Composition/Information on Ingredients

<i>Name</i>	<i>EINECS #</i>	<i>CAS #</i>	<i>Annex I/Annex VI*.</i>	<i>% wt</i>	<i>Symbols</i>	<i>REACH Number</i>	<i>R-Phrases</i>
Sepiolite Clay	264-465-3	63800-37-3	N/C	100		Exempted	
Asbestos free							N/C: Not Classified

Sepiolite may contain crystalline silica (not listed in Annex I of Directive 67/548/EEC, not listed in Annex VI of Regulation (EC) 1272/2008*) in quantity up to 7%.

Sepiolite is not listed as dangerous substance in the Annex I of Directive 67/548/EEC as amended, not listed in Annex VI of Regulation (EC) 1272/2008.

Sepiolite is an exemption from the obligation to register in compliance with Annex V of Regulation (EC) 1907/2006

Section IV. First Aid Measures

Emergency Medical Treatment

No special instructions are required

Special Provisions

No special requirements

FIRST AID

Eye Contact

Flush with plenty of flowing water. Seek medical attention if irritation persists.

Skin Contact

Wash off with water.

Inhalation

Allow resting in a well-ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.

Ingestion

Provide symptomatic treatment and seek medical attention.

SYMPTOMS AND EFFECTS

Eye Contact

May cause irritation

Skin Contact

None expected in normal conditions

Inhalation

Mechanical Irritation

Ingestion

None expected in normal conditions

Section V. Fire-Fighting Measures

General Advice	Non flammable, non explosive.
Extinguishing Media	<u>Suitable:</u> All extinguishing media can be used <u>Not to be used:</u> None known
Products of Combustion	Not applicable
Protection for firemen	No special requirements
Special risks	No hazardous releases in case of fire are expected

Section VI. Accidental Release Measures

Personal Precautions	Avoid dust formation. Avoid breathing dust and contact with eyes Use safety glasses and respiratory protection in case of high level airborne
Environmental Precautions	These products are based on natural clay and no special precautions are required
Spill Procedures	<u>Soil:</u> Scoop up or vacuum soil spillages, if appropriated, use gentle water spray to wet down. <u>Water:</u> Clean up any spillage.
Disposal	Place in a closed container prior to disposal. Can be landfilled in compliance with local regulations

Section VII. Handling and Storage

Precautions in handling and storage Use good housekeeping practices to avoid generating airborne dust. Do not breathe dust. Avoid contact with eyes

HANDLING

Technical Measures	No special requirements
Fire/Explosion Controls	No special requirements
Advice for Safe Handling	Handle in accordance with good industrial hygiene and safety procedures
Incompatible Products	None expected

STORAGE

Suitable storage Circumstances	Store in dry area
Storage – away from	No special requirements
Recommended packing materials	No special requirements

Section VIII. Exposure Controls/Personal Protection

Respect regulatory provisions for dust (inhalable and respirable). These products have no specific Occupational Exposure Limit (OEL). A non-intentional substance (quartz) in the composition of these products has not community OEL but in some Member States are regulated as follows:

**Exposure Limit Values
(for Respirable Crystalline
silica)**
(mg/m³), (January, 2006)

Austria: 0,15 (Maximale Arbeitsplatz Konzentration)
Belgium: 0,1
Denmark: 0,1 (Threshold Limit Value)
Finland: 0,2 (Occupational Exposure Standard)
France: 0,1 (Valeur limite de Moyenne d'Exposition)
Germany: There are no OELs for crystalline silica since 2005; instead of an OEL there is a workers health protection system
Greece: 0,1 (Legislation for mining activities)
Ireland: 0,05 (2002 Code of Practice for the Safety, Health & Welfare at Work)
Italy: 0,05 (Threshold Limit Value)
Luxemburg: 0,15 (Grenzwert nach TRGS 900)
The Netherlands: 0,075 (Maximaal Aanvarde Concentratie)
Norway: 0,1 (Administrative Nomer (8hTWA) for Forurensing I Arbeldsmilljöt)
Portugal: 0,1 (Threshold Limit Value)
Spain: 0,1 (Valores límite, INSHT)
Sweden: 0,1 (Yrkeshygieniska Gränsvärden)
Switzerland: 0,15 (Valeur limite de Moyenne d'Exposition)
United Kingdom: 0,3 (Workplace Exposure Limit, HSE)

Exposure Controls

General ventilation
 Local exhaust ventilation is recommended to keep airborne dust levels below exposure limits.

Personal Protection	<i>Respiratory:</i> Use air-purifying dust respirator if airborne dust concentration is above exposure limits.
	<i>Hands:</i> No special hands protection is required in normal conditions but the use of gloves is recommended.
	<i>Skin:</i> No special skin protection is required in normal conditions. Wash skin if mechanical irritation is experienced.
	<i>Eyes:</i> Use safety glasses with side shields if large amounts of product that could generate dust is handled.
Industrial Hygiene	Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and when leaving work. Keep the working area as clean and tidy as possible.
Environmental Exposure Controls	Do not allow product to reach sewage system or any watercourse.

Section IX. Physical and Chemical Properties

Appearance	Light-white free flowing granules.
Odour	Odourless
pH (10% in water)	8.5 ±0.5
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Non-flammable
Explosive Properties	None
Oxidising Properties	None
Vapour pressure	Not applicable
Relative Density	2.1 (Water=1)
Solubility	Insoluble in water. Insoluble in fats
Partition Coefficient	Not applicable
Viscosity	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Melting/Sublimation Point	1,550°C / Not applicable
Auto-Ignition Temperature	Not applicable

Section X. Stability and Reactivity

Stability Data	These products are stable in normal conditions
Hazard reactions	None expected
Conditions to avoid	No special requirements
Materials to avoid (Incompatibility)	None known
Hazardous Decomposition	No hazardous decomposition or by-products are expected.

Section XI. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
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EFFECTS OF ACUTE EXPOSURE

Eye contact	May cause irritation if exposed to large amounts of dust
Skin contact	Minor skin irritation may result from physical contact.
Sensitisation	No adverse effects are known
Ingestion	No adverse effects are known
Inhalation	Inhalation of high concentrations of dust may cause slight mechanical irritation
Additional Remarks	No additional remarks

EFFECTS OF CHRONIC OVEREXPOSURE

Main Effects	<p>Sepiolite produced by TOLSA has no carcinogenic effects as it has been demonstrated by epidemiological, <i>in vitro</i> and <i>in vivo</i> studies.</p> <p>Sepiolite is classified by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans").</p> <p>As any natural occurring mineral, sepiolite may contain quartz (crystalline silica). In 1997, IARC concluded that the respirable fraction of crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs, Vol 68)</p> <p>In June 2003, the EU Scientific Committee on Occupational Exposure Limits (SCOEL) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk...". (SCOEL SUM Doc 94-final, July 2003)</p>
Other Effects	No mutagenic, teratogenic or developmental toxicity effects are known
Additional Remarks	There is body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

Section XII. Ecological Information

Ecotoxicity	No specific adverse effects are known
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Mobility	No data available
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Persistence and Degradability	No data available
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Bioaccumulative Potential	No data available
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Other adverse effects	None known
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Section XIII. Disposal Considerations

Methods of disposal	Dispose of in a safe manner in accordance with local/national regulations
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Contaminated Packages	Dispose of in a safe manner in accordance with local/national regulations
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Section XIV. Transport Information

Shipping Name	Not regulated
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ADR: Not classified

IMDG: Not classified

Transport Classification	ICAO/IATA: Not classified
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RID: Not classified

Section XV. Regulatory Information and Pictograms

Trade Name	Sepiolite Industrial Spillage Absorbent.
EEC Labelling	Not classified
Symbol(s)	None
Contains	None
R-Phrases	None
S-Phrases	None
Annex I Number	Not applicable
EEC Number(s)	Not applicable

Protective Clothing (Pictograms)

Section XVI. Other Information

R- Phrases Text	None
Revision Number	#1
Revision Date	February, 2009

The information in this Material Safety Data Sheet should be provided to all who will use, handle, storage, transport or otherwise be exposed to these products. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by TOLSA. However, TOLSA makes no guarantee or warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information related herein is based in proper handling and anticipated uses and is for the material without chemical additions/alterations Users should make their own investigations to determinate the suitability of the information for their particular purposes.