

FDS-148-01-ENG Code: **Creation Date** Jan 2009 Rev. Date

Jan 2009 1 of 8

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	STEEBENT G5			
Product Name	Bentonite		CAS#	1302-78-9
Chemical Name	Hydrated Alumino Silicate		Emergency Telephone	+34 (91) 360.69.00 (Office hours)
Supplier	TOLSA UK, Ltd. West Carr Road Retford Nottinghamshire DN22 7ZF (United Kingdom) Protective Clothing Protective Clothing		ive Clothing	
Manufacturer	TOLSA UK, Ltd. West Carr Road -Retford Nottinghamshire DN22 7ZF (United Kingdom)	Materia	Material Uses Binder and 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	This product may generate dust during handling and use. As any natural occurring mineral, bentonite may contain quartz (crystalline silica). Long term overexposure to crystalline silica dust may cause silicosis.	
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 airbone 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. It is recommended the use of latex or chemical resistant gloves in handling.	



Code: FDS-148-01-ENG

Creation Date Jan 2009
Rev. Date Jan 2009
Page: 2 of 8

Section III. Composition/Information on Ingredients

Name	EINECS #	CAS#	EC Annex I/Annex VI*.	% wt	Symbols	REACH Number	R-Phrases
Bentonite	215-108-5	1302-78-9	N/C	100		Exempted	

Asbestos free N/C: Not Classified

Bentonite 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 3%.

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

Bentonite 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	No special instructions are required
Treatment	140 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.

Allow resting in a well-ventilated area if high concentration is inhaled and

Inhalation 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	Suitable: All extinguishing media can be used	
	Not to be used: None known	
Products of Combustion	Not applicable	
Protection for firemen	No special requirements	
Special risks	No hazardous releases in case of fire are expected	



FDS-148-01-ENG Code:

Creation Date Jan 2009 Rev. Date Jan 2009 Page: 3 of 8

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 airbone	
Environmental Precautions	This product is 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 Use good housekeeping practices to avoid generating airborne dust. Do not breathe dust. Avoid contact with eyes storage

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 Store in dry area **Circumstances**

Storage – away from No special requirements

Recommended packing

No special requirements materials



Code: FDS-148-01-ENG

Creation Date Jan 2009
Rev. Date Jan 2009
Page: 4 of 8

Section VIII. Exposure Controls/Personal Protection

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

Austria: 0,15 (Maximale Arbeitspaltz Koncentration)

Belgium: 0,1

Denmark: 0,1 (Threshold Limit Value)

Finland: **0,2** (Occupational Exposure Standard)

France: **0,1** (Valeur limite de Moyenne d'Exposition)

Exposure Limit Values

(for Respirable Crystalline silica)

(mg/m³), (January, 2006)

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 Arbeldsmilljöet)

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)

General ventilation

Exposure ControlsLocal exhaust ventilation is recommended to keep airborne levels below exposure limits.

exposure mints.

Respiratory: Use air-purifying dust respirator if airborne concentration levels are

above exposure limits.

Hands: No special hands protection is required in normal conditions but the use

of gloves is recommended.

Personal Protection

Skin: No special skin protection is required in normal conditions. Wash skin if

mechanical irritation is experienced.

Eyes: Use safety glasses with side shields if large amounts of product that could

cause dust is handled.

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 Beige free flowing powder

Odour None



Code: Creation Date Rev. Date Page: FDS-148-01-ENG Jan 2009 Jan 2009 5 of 8

pH (10% in water)	6
Boiling Point	Not applicable
Flash Point	Not applicable
Flammability	Non-flammable
Explosive Properties	None
Oxidising Properties	None
Vapour pressure	Not applicable
Relative Density	2.7 (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	Not available / Not applicable
Auto-Ignition Temperature	Not applicable
Other information	Wet bentonite on floors presents a high slipping hazard

Section X. Stability and Reactivity	
Stability Data	This product is 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.Eye/skin contact



Code: FDS-148-01-ENG

Creation Date Jan 2009
Rev. Date Jan 2009
Page: 6 of 8

EFFECTS OF ACUTE EXPOSURE

Eye contact Mild irritant to eyes (according to the modified Kay & Calandra criteria)

Skin contact Minor skin irritation may result from physical contact.

SensitisationNo adverse effects are knownIngestionNo 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 As any natural occurring mineral, bentonite 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)

In June 2003, the EU Scientific Committe 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)

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.



Code: FDS-148-01-ENG Creation Date Jan 2009

Rev. Date Jan 2009
Page: 7 of 8

Section XII. Ecological Information	
Ecotoxicity	No specific adverse effects are known
Mobility	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available
Other adverse effects	None known

Section XIII. Disposal Considerations

Methods of disposalDispose of in a safe manner in accordance with local/national regulationsContaminated PackagesDispose of in a safe manner in accordance with local/national regulations

Section XIV. Transport Information		
Shipping Name	Not regulated	
Transport Classification	ADR: Not classified	
	IMDG: Not classified	
	ICAO/IATA: Not classified	
	RID: Not classified	



Code: FDS-148-01-ENG

Creation Date Jan 2009 Rev. Date Jan 2009 Page: 8 of 8

Section XV. Regulatory Information and Pictograms

None

Steebent G5 **Trade Name**

EEC Labelling Not classified

Symbol(s) None **Contains** None

R-Phrases None

Annex I Number Not applicable Not applicable

Protective Clothing (Pictograms)

EEC Number(s)

S-Phrases





Section XVI. Other Information	
R- Phrases Text (section III)	None
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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.