

# Safety Data Sheet



Issue date: 12<sup>th</sup> December 2016

Section

## 1: Identification of the substance/mixture and of the company/ undertaking

1.1	Product identifier	Fullers Earth (Bentonite) Solid form. This MSDS is valid for all forms of solid Fullers Earth (powder and granules)
	Chemical name/synonyms	Hydrated Alumino Silicate
	CAS-number	1302-78-9
1.2	Relevant identified uses of the substance or mixture and uses advised against	Binder, Carrier and Cosmetic Ingredient No uses advised against are identified.
1.3	Details of the supplier of the safety data sheet	
	Address	Intra-Laboratories Unit 5 Devonshire Meadows Broadley Park Road Plymouth PL6 7EZ UK
	Telephone number	+44 1752724109
	Fax	N/A
	Email	admin@intralabs.co.uk
1.4	Emergency telephone number	24 hours service is available at NHS Direct in UK: +44(0)845 46 47 or call 112 or 999, see also <a href="http://www.nhsdirect.nhs.uk">www.nhsdirect.nhs.uk</a>
	MSDS issued by	Daniel Mckintosh, Intra-Laboratories Ltd, UK, +44 1752724109

## 2: Hazards identification

2.1	<b>Classification</b>	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
2.2	<b>Potential Adverse Human Health Effects</b>	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.
2.3	<b>Potential Adverse Effects for Environment</b>	No specific adverse effects are known
2.4	<b>Target Organs</b>	Eyes and Skin (irritation risk). Pulmonary System (irritation and chronic risk)
2.5	<b>Protective Measures</b>	In case of exposure to high level of air-borne 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

## 3: Composition/Information on ingredients

Name	EINECS#	CAS-no	EC Annex I/Annex VI	% wt	Symbols	REACH Number	R-Phrases
Bentonite	215-108-5	1302-78-9	N/C	100	N/A	Exempted	Not Classified

Asbestos free.

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.

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## 4: First Aid Measures

4.1	<b>Emergency Medical Treatment</b>	No special instructions are required
4.2	<b>Special Provisions</b>	No special requirements
4.3	<b>First Aid</b>	
	<u>Eye Contact</u>	Flush with plenty of flowing water. Seek medical attention if irritation persists
	<u>Skin Contact</u>	Wash off with water.
	<u>Inhalation</u>	Allow resting in a well-ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.
	<u>Ingestion</u>	Provide symptomatic treatment and seek medical attention.
4.4	<b>Symptoms and Effects</b>	
	<u>Eye Contact</u>	May cause irritation
	<u>Skin Contact</u>	None expected in normal conditions
	<u>Inhalation</u>	Mechanical Irritation
	<u>Ingestion</u>	None expected in normal conditions

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## 5: Fire-Fighting Measures

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

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## 6: Accidental Release Measures

6.1	<b>Personal Precautions</b>	Avoid dust formation. Avoid breathing dust and contact with eyes. Use safety glasses and respiratory protection in case of high level air-borne particles.
6.2	<b>Environmental Precautions</b>	This product is based on natural clay and no special precautions are required.
6.3	<b>Spill Procedures</b>	<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
6.4	<b>Disposal</b>	Place in a closed container prior to disposal. Can be landfilled in compliance with local regulations

## 7: Handling & Storage

7.1	<b>Precautions in handling and storage</b>	Use good housekeeping practices to avoid generating airborne dust. Do not breathe dust. Avoid contact with eyes
	<b>Handling</b>	
7.2	<u>Technical Measures</u>	No special requirements
7.3	<u>Fire/Explosion Controls</u>	No special requirements
7.4	<u>Advice for Safe Handling</u>	Handle in accordance with good industrial hygiene and safety procedures
7.5	<u>Incompatible Products</u>	None expected
	<b>Storage</b>	
7.6	<u>Suitable storage Circumstances</u>	Store in dry area
7.7	<u>Storage – away from</u>	No special requirements
7.8	<u>Recommended packing materials</u>	No special requirements

## 8: Exposure Controls/Personal Protection

8.1	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:
	<p><b>Exposure Limit Values</b> (for Respirable Crystalline silica) (mg/m<sup>3</sup>), (January, 2006)</p> <p><u>Austria</u>: <b>0,15</b> (Maximale Arbeitsplatz Konzentration)  <u>Belgium</u>: <b>0,1</b>  <u>Denmark</u>: <b>0,1</b> (Threshold Limit Value)  <u>Finland</u>: <b>0,2</b> (Occupational Exposure Standard)  <u>France</u>: <b>0,1</b> (Valeur limite de Moyenne d'Exposition)  <u>Germany</u>: There are no OELs for crystalline silica since 2005; instead of an OEL there is a workers health protection system  <u>Greece</u>: <b>0,1</b> (Legislation for mining activities)  <u>Ireland</u>: <b>0,05</b> (2002 Code of Practice for the Safety, Health &amp; Welfare at Work)  <u>Italy</u>: <b>0,05</b> (Threshold Limit Value)  <u>Luxemburg</u>: <b>0,15</b> (Grenzwert nach TRGS 900)  <u>The Netherlands</u>: <b>0,075</b> (Maximaal Aanvarde Concentratie)  <u>Norway</u>: <b>0,1</b> (Administrative Nomer (8hTWA) for Forurensing I Arbeldsmilljøet)  <u>Portugal</u>: <b>0,1</b> (Threshold Limit Value)  <u>Spain</u>: <b>0,1</b> (Valores Límite, INSHT)  <u>Sweden</u>: <b>0,1</b> (Yrkeshygieniska Gränsvärden)  <u>Switzerland</u>: <b>0,15</b> (Valeur limite de Moyenne d'Exposition)  <u>United Kingdom</u>: <b>0,3</b> (Workplace Exposure Limit, HSE)</p>
8.2	<b>Exposure Controls</b>
	General ventilation. Local exhaust ventilation is recommended to keep airborne levels below exposure limits.

8.3	<b>Personal Protection</b>	<p><u>Respiratory</u>: Use air-purifying dust respirator if airborne concentration levels are above exposure limits.</p> <p><u>Hands</u>: No special hands protection is required in normal conditions but the use of gloves is recommended.</p> <p><u>Skin</u>: No special skin protection is required in normal conditions. Wash skin if mechanical irritation is experienced.</p> <p><u>Eyes</u>: Use safety glasses with side shields if large amounts of product that could cause dust is handled.</p>
8.4	<b>Industrial Hygiene</b>	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
8.5	<b>Environmental Exposure Controls</b>	Do not allow product to reach sewage system or any watercourse.

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## 9: Physical and Chemical Properties

9.1	<b>Appearance</b>	Beige free flowing powder
9.2	<b>Odour</b>	None
9.3	<b>pH (10% in water)</b>	6
9.4	<b>Boiling Point</b>	Not Applicable
9.5	<b>Flash Point</b>	Not Applicable
9.6	<b>Flammability</b>	Non-Flammable
9.7	<b>Explosive Properties</b>	None
9.8	<b>Oxidising Properties</b>	None
9.9	<b>Vapour pressure</b>	Not Applicable
9.10	<b>Relative Density</b>	2.7 (Water = 1)
9.11	<b>Solubility</b>	Insoluble in water. Insoluble in fats
9.12	<b>Partition Coefficient</b>	Not Applicable
9.13	<b>Viscosity</b>	Not Applicable
9.14	<b>Vapour density</b>	Not Applicable
9.15	<b>Evaporation rate</b>	Not Applicable
9.16	<b>Melting/Sublimation Point</b>	Not Applicable
9.17	<b>Auto-Ignition Temperature</b>	Not Applicable
9.18	<b>Other information</b>	Wet bentonite on floors presents a high slipping hazard

## Section

## 10: Stability and Reactivity

10.1	<b>Stability Data</b>	This product is stable in normal conditions
10.2	<b>Hazard reactions</b>	None expected
10.3	<b>Conditions to avoid</b>	No special requirements
10.4	<b>Materials to avoid (Incompatibility)</b>	None known
10.5	<b>Hazardous Decomposition</b>	No hazardous decomposition or by-products are expected.

## Section

## 11: Toxicological Information

11.1	<b>Routes of Entry</b>	Inhalation, Ingestion eye & skin contact
	<b>Effects of Acute Exposure</b>	
11.2	<u>Eye contact</u>	Mild irritant to eyes (according to the modified Kay & Calandra criteria)
11.3	<u>Skin contact</u>	Minor skin irritation may result from physical contact.
11.4	<u>Sensitisation</u>	No adverse effects are known
11.5	<u>Ingestion</u>	No adverse effects are known
11.6	<u>Inhalation</u>	Inhalation of high concentrations of dust may cause slight mechanical irritation
11.7	<u>Additional Remarks</u>	No additional remarks
	<b>Effects of Chronic Overexposure</b>	
11.8	<u>Main Effects</u>	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 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)
11.9	<u>Other Effects</u>	No mutagenic, teratogenic or developmental toxicity effects are known

11.10	<u>Additional Remarks</u>	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.
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Section

## 12: Ecological Information

12.1	<b>Eco toxicity</b>	No specific adverse effects are known
12.2	<b>Mobility</b>	No data available
12.3	<b>Persistence and Degradability</b>	No data available
12.4	<b>Bio accumulative Potential</b>	No data available
12.5	<b>Other adverse effects</b>	Not Known

Section

## 13: Disposal Considerations

13.1	<b>Methods of disposal</b>	Dispose of in a safe manner in accordance with local/national regulations
13.2	<b>Contaminated Packages</b>	Dispose of in a safe manner in accordance with local/national regulations

Section

## 14: Transport Information

14.1	<b>Shipping Name</b>	Not regulated
14.2	<b>Transport Classification</b>	<u>ADR</u> : Not classified <u>IMDG</u> : Not classified <u>ICAO/IATA</u> : Not classified <u>RID</u> : Not classified

## Section

## 15: Regulatory Information

15.1	Trade Name	Fuller's Earth, Calcium Bentonite, Bentonite
15.2	EEC Labelling	Not classified
15.3	Symbol(s)	None
15.4	Contains	None
15.5	R-Phrases	None
15.6	S-Phrases	None
15.7	Annex I Number	Not applicable
15.8	EEC Number(s)	Not applicable

## Section

## 16: Other Information

16.1	R- Phrases Text (section III)	None
16.2	Revision Number	No. 1
16.3	Revision Date	December 2016

*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 Intra Laboratories. However, Intra Laboratories 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.*