

Safety Data Sheet according to Directive 91/155/EC

Revision Date: July 2016

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Fullers Earth

Application: Artists' Filler

Manufacturer/Supplier:

L Cornelissen & Son Ltd 105 Great Russell Street London WC1B 3RY

Tel: 020 7636 1045 Fax: 020 7636 3655

www.cornelissen.com

2) Composition/Information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Bentonite Quartz	x Y x	1302-78-9 14808-60-7	97 - 100 < 3.0

Composition comments

Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w.

Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.

3) Hazards Identification

Physical hazards:Not classified.Health hazards:CarcinogenicityCategory 1AEnvironmental hazards:Not classified.OSHA defined hazards:Not classified.Label elements

Signal word Danger	
Hazard statement	
H350:	May cause cancer.
Precautionary statement	
Prevention	
P201: P202:	Obtain special instructions before use. Do not handle until all safety precautions have
P264: P280:	been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	CO'
P308 + P313:	If exposed or concerned: Get medical advice/attention.
Storage	
P405:	Store locked up.
Disposal	C Y
P501:	Dispose of contents/container (in accordance with related regulations).
Hazard(s) not otherwise classified (HNOC)	Material can be slippery when wet.
Supplemental information:	None.

4) First Aid Measures

Description of first aid measures

Inhalation:	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Ingestion:	Rinse mouth with water. Get medical attention if symptoms occur. If ingestion of a large amount does occur, seek medical attention.
Skin contact:	Wash off with soap and water. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Get medical attention if irritation develops and persists.

Most important symptoms and effects, both acute and delayed

None known. Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. No hazards which require special first aid measures.

5) Fire Fighting Measures

Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the cher	mical: The product itself does not burn. No unusual fire or explosion hazards noted. Material can be slippery when wet.
Special protective equipment and pre	cautions for firefighters: Wear self-contained breathing apparatus and protective clothing. Material can be slippery when wet.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted. Non- combustible, substance itself does not burn. Material can be slippery when wet

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Avoid inhalation of dust from the spilled material. Use an approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect

dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not flush into surface water. Do not let product enter drains.

7) Handling and Storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust from this material. Avoid contact with skin and eyes. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Protect from moisture. Avoid dust formation. Store locked up. Keep container tightly closed. Store in a well-ventilated place. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

Specific end use(s)

Artists' filler

8) Exposure/Personal Protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m ³ 0.1 mg/m ³ 2.4 mppcf	Total dust. Respirable. Respirable.
Additional components Type	Value	Form	
Nuisance dust.	TWA	5 mg/m ³ 15 mg/m ³ 50 mppcf 15 mppcf	Respirable fraction. Total dust. Total dust. Respirable fraction.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m^3	Respirable fraction.
US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	Form

Quartz (CAS 14808-60-7)	TWA	$0.05 mg/m^3$	Respirable dust.
		0	1
Biological limit values:	0	-	noted for the ingredient(s).
Exposure guidelines:	-	respirable crys	sance dust (total and talline silica should be
Appropriate engineering contr	per hour) shou matched to con enclosures, loc	ld be used. Ver nditions. If app al exhaust vent intain airborne	ion (typically 10 air changes ntilation rates should be licable, use process ilation, or other engineering levels below recommended
	airborne levels be sufficient to	to an acceptable effectively rem mes that may b	en established, maintain le level. Ventilation should nove and prevent build up of be generated during handling
Individual protection measured	ures, such as p	ersonal protec	tive equipment
Eye/face protection:		usses with side s g goggles if dus	
Skin protection	gloves. Use pro product. Prolo	otective skin cre	priate chemical resistant eam before handling the peated skin contact with this dermatitis.
	Other: Normal long pants) is r		(long sleeved shirts and
Respiratory protection:		e to dust/fume	ved respirator if there is a e at levels exceeding the
Thermal hazards:	Not available.		
General hygiene consideration Protective equipment	Always observe washing after h drinking, and/e	e good persona handling the ma or smoking. Ro	Avoid contact with eyes. l hygiene measures, such as uterial and before eating, putinely wash work clothing remove contaminants.
roceave equipment			



9) Physical and chemical Properties

Information on basic and physical and chemical properties

•	D 1		
Appearance:	Powder.		
Physical state:	Solid.		
Form:	Powder.		
Colour:	Off-white.		
Odour:	Odourless.		
Odour threshold:	Not available.		
pH:	7.0 - 10.0 in suspension		
Melting point/freezing	g point: Not applicable		
Initial boiling point an	d boiling range: Not applicable		
Flash point:	Not applicable		
Evaporation rate:	Not applicable		
Flammability (solid, ga	s): Not available.		
Upper/lower flammab	pility or explosive limits: Not applicable		
Vapour pressure:	Not applicable		
Vapour density:	Not applicable		
Relative density:	Not available.		
Solubility (water):	Insoluble		
Auto-ignition temperature: Not available.			
Decomposition tempe	rature: Not available.		
Viscosity:	Not applicable		

Other information

Bulk density:	800.00 - 1000.00 kg/m ³
Density:	2.60 g/cm^3
Percent volatile:	0 % estimated
Specific gravity:	2.60

10) Stability and Reactivity	5
Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid:	Avoid spread of dust. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e. Clearing dust surfaces with compressed air).
Incompatible materials:	None known.
Hazardous decomposition products:	No dangerous reaction known under conditions of normal use. No hazardous decomposition products are known.

11) Toxicological Information

Information on likely routes of exposure

Inhalation:

Inhalation of dusts may cause respiratory irritation.

Skin contact:No adverse effects due to skin contact are
expected.Eye contact:Dust in the eyes will cause irritation.Ingestion:Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results	
Acute Inhalation Fullers Earth	LC50 Rat	204.0816 mg/kg estimated 5.3776 mg/l estimated	
Oral	LD50 Rat	2040.8163 mg/kg estimated	
Components	Species	Test Results	
Acute Inhalation			
Bentonite (CAS 1302-78-9)	LC50 Rat	>= 5.27 mg/l (OECD 436, rat)	
Oral			
	LD50 Rat	> 2000 mg/kg (OECD 420, rat)	
* Estimates for product may be based	l on additional compon	ent data not shown.	
Skin corrosion/irritation:	Prolonged skin contac irritation.	ct may cause temporary	
Serious eye damage/eye irritation:	Dust in the eyes will c to eyes (according to t Calandra criteria).	ause irritation. Mild irritant the modified Kay &	
Respiratory or skin sensitization			
Respiratory sensitization:	Not available.		
Skin sensitization:	This product is not ex sensitization.	pected to cause skin	
Germ cell mutagenicity:		ndicate product or any at greater than 0.1% are ic.	
Carcinogenicity:	2	cupational exposure to spirable crystalline silica and controlled.	
IARC Monographs. Overall Evaluation of Carcinogenicity			
Quartz (CAS 14808-60-7) 1:	Carcinogenic to huma	uns.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)			

Not listed.

Not listed.			
US. National	Toxicology Program (N	NTP) Report on Carcin	nogens
Quartz (CAS	14808-60-7):	Known To Be Hun	nan Carcinogen.
Reproductive	toxicity:	This product is not reproductive or dev	-
Specific targe	t organ toxicity - single	exposure: Not	classified.
Specific targe	t organ toxicity - repeat	ed exposure: Not	classified.
Aspiration ha	zard:	Not available.	
Chronic effec	:ts:	Overexposure to du pneumocononiosis, inhalation of minera fibrotic changes to t respiratory disease of dust, which can lead of the lung tissue. O nuisance dust (total	e may cause chronic effects. ust may result in , a respiratory disease caused by al dust, which can lead to the lung tissue, or silicosis, a caused by inhalation of silica d to inflammation and fibrosis Decupational exposure to and respirable) and respirable buld be monitored and
12) Ecologi	ical Information		
Ecotoxicity:	~~~	hazardous. Howeve possibility that large	classified as environmentally er, this does not exclude the e or frequent spills can have a ng effect on the environment.
Ecotoxicity: Components		hazardous. Howeve possibility that large	er, this does not exclude the or frequent spills can have a
Components	AS 1302-78-9)	hazardous. Howeve possibility that large harmful or damagin	er, this does not exclude the e or frequent spills can have a ng effect on the environment.
Components		hazardous. Howeve possibility that large harmful or damagin	er, this does not exclude the e or frequent spills can have a ng effect on the environment.
<i>Components</i> Bentonite (CA		hazardous. Howeve possibility that large harmful or damagin	er, this does not exclude the e or frequent spills can have a ng effect on the environment.
<i>Components</i> Bentonite (CA Aquatic	AS 1302-78-9)	hazardous. Howeve possibility that large harmful or damagin <i>Species</i> Freshwater algae Daphnia	er, this does not exclude the e or frequent spills can have a ng effect on the environment. <i>Test Results</i>
<i>Components</i> Bentonite (CA Aquatic Algae	AS 1302-78-9) EC50	hazardous. Howeve possibility that large harmful or damagin <i>Species</i> Freshwater algae Daphnia	er, this does not exclude the e or frequent spills can have a ag effect on the environment. <i>Test Results</i> >= 100 mg/l, 72 hours >= 100 mg/l, 48 hours brate 81.6 mg/l, 96 hours Dungeness crab 24.8 mg/l, 96 hours dock shrimp 16000 mg/l, 96 hours
<i>Components</i> Bentonite (CA Aquatic Algae Crustacea	AS 1302-78-9) EC50 EC50	hazardous. Howeve possibility that large harmful or damagin <i>Species</i> Freshwater algae Daphnia Freshwater inverteb Freshwater fish Marine water fish	er, this does not exclude the e or frequent spills can have a ag effect on the environment. <i>Test Results</i> >= 100 mg/l, 72 hours >= 100 mg/l, 48 hours orate 81.6 mg/l, 96 hours Dungeness crab 24.8 mg/l, 96 hours dock shrimp 16000 mg/l, 96 hours rainbow trout 2800 - 3200 mg/l, 24 hours bass, blue gill and sunfish
<i>Components</i> Bentonite (CA Aquatic Algae Crustacea Fish	AS 1302-78-9) EC50 EC50	hazardous. Howeve possibility that large harmful or damagin <i>Species</i> Freshwater algae Daphnia Freshwater inverteb Freshwater fish Marine water fish Rainbow Trout	er, this does not exclude the e or frequent spills can have a ag effect on the environment. <i>Test Results</i> >= 100 mg/l, 72 hours >= 100 mg/l, 48 hours Dungeness crab 24.8 mg/l, 96 hours dock shrimp 16000 mg/l, 96 hours rainbow trout 2800 - 3200 mg/l, 24 hours bass, blue gill and sunfish 19000 mg/l, 96 hours

Estimates for product may be based on additional component data not shown.

Persistence and degradability:	The methods for determining the biological
	degradability are not applicable to inorganic

	substances. Not inherently biodegradable. The product solely consists of inorganic compounds which are not biodegradable. No data is available on the degradability of this product.
Bioaccumulative potential:	No data available. Not applicable
Mobility in soil	No data available. Bentonite is almost insoluble and thus presents a low mobility in most soils
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. Not expected to be harmful to aquatic organisms.
12) Dispessel Information	
13) Disposal Information Disposal instructions:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations:	Dispose in accordance with all applicable regulations.
Hazardous waste code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products: Material should be recycled if possible.	
the the	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations. Can be landfilled, when in compliance with local regulations.
Contaminated packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14) Transport Information

Transport class:

This product is not classified for transport.

15) Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: $$\rm N/A$$

Chemical Safety Assessment:

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

Further Information

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) 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 (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist