

### Safety Data Sheet(SDS) Report

Project Number: RGST160728129

Applicant: PHOMI MCM CO.,LTD.  
112 ZHONGSHENG ROAD,PANYU DISTRICT,  
GUANGZHOU, CHINA

Issue Date: Aug 08, 2016

### Sample Description :

The sample information was submitted and identified on client's behalf to be:

Product Name : Ash black clay  
Physical State : Solid  
Data Received : Jul 28, 2016  
Data Reviewed : Aug 08, 2016


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### Service Requested:

Based on the information provided by the applicant, the Safety Data Sheet (SDS) was generated in accordance with requirements of Regulation (EC) No. 1907/2006, Regulations (EU) No. 2015/830, Regulation (EC) No. 1272/2008 [CLP], for details please refer to attached pages.

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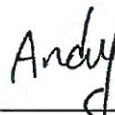
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**Ash black clay**  
**PHOMI MCM CO.,LTD.**

Version No: 1.0  
 Safety Data Sheet (Conforms to Regulations (EU) No 2015/830)

Project number: RGST160728129  
 Issue Date: Aug 08, 2016

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1 Product Identifier

Product name: Ash black clay

Synonyms: Not Available

Other means of identification: Not Available

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Not Available

Uses advised against: Not Applicable

### 1.3 Details of the manufacturer/importer

Registered company name: PHOMI MCM CO.,LTD.

Address: 112 ZHONGSHENG ROAD,PANYU DISTRICT,GUANGZHOU,CHINA

Telephone: 020-34632196

Fax:

Emergency telephone Numbers: 020-34632196

Email:

Importer name:

Address:

Telephone:

Email:

### 1.4 Emergency telephone number

Association / Organization:


Emergency telephone Numbers:

## SECTION 2 Hazards Identification

### 2.1 Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008 [CLP] <sup>[1]</sup>	Skin corrosion/irritation, category 3; H316 Serious eye damage/eye irritation, category 2, H319
Legend:	1. Classified by Chemwatch; 2. Classification drawn from EC Directive 1272/2008 – Annex VI

### 2.2 Label elements

CLP label elements:	
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Signal word:	Warning
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#### Hazard Statement:

H316	Causes mild skin irritation
H319	Causes serious eye irritation

#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

P264	Wash hand thoroughly after handling.
P280	Wear protective eye protection/face protection.

#### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.

**Precautionary statement(s) Storage**  
 Not Applicable

**Precautionary statement(s) Disposal**  
 Not Applicable

### 2.3 Other hazards

REACH- Art. 57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

## SECTION 3 Composition / Information on Ingredients

### 3.1 Substances

See 'Composition on Ingredients' in Section 3.2

### 3.2 Mixtures

Ingredient(s):

Name	%[weight]	CAS No.	EC No.	Index No	REACH No	Classification according to regulation (EC) No. 1272/2008[CLP]
Silicon dioxide	55-70%	7631-86-9	231-545-4	Not available	Not available	Not available
Aluminium oxide	15-25%	1344-28-1	215-691-6	Not available	Not available	Not available
Triiron tetraoxide	3-6%	1317-61-9	215-277-5	Not available	Not available	Not available
Calcium oxide	0.7-2%	1305-78-8	215-138-9	Not available	Not available	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Magnesium oxide	0.5-2%	1309-48-4	215-171-9	Not available	Not available	Not available
Diiron trioxide	0.5-1.5%	1309-37-1	215-168-2	Not available	Not available	Not available
Titanium dioxide	0.8-1.2%	13463-67-7	236-675-5	Not available	Not available	Not available

<b>Legend</b>	1. Classified by Chemwatch, 2. Classification drawn from EC Directive 1272/2008-Annex VI 3. Classification drawn from C&L
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## SECTION 4 First Aid Measures

### 4.1 Description of first aid measures

<b>General notes</b>	> In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Eye Contact</b>	> If this product comes in contact with eyes: > Wash out immediately with water. > If irritation continues, seek medical attention. > Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
<b>Skin Contact</b>	> If skin or hair contact occurs: > Flush skin and hair with running water (and soap if available). > Seek medical attention in event of irritation.
<b>Inhalation</b>	> Whilst protecting yourself remove the casualty from the hazardous area and take him to the fresh air. > Lay the casualty down in a quiet place and protect him against hypothermia. > Arrange medical treatment. > In the case of breathing difficulties have the casualty inhale oxygen.
<b>Ingestion</b>	> Rinse the mouth and spit the fluids out. > If the casualty is conscious have him drink copious amounts of liquids (water). > Do not make the casualty vomit. > Lay the casualty down in a quiet place and protect him against hypothermia. > Arrange medical treatment. > During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration.

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

See section 11.

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

Treat symptomatically

### SECTION 5 Firefighting Measures

#### 5.1 Extinguishing media

	<ul style="list-style-type: none"> <li>➤ Water (spray - not splash)</li> <li>➤ Dry extinguishing powder</li> <li>➤ Carbon dioxide</li> <li>➤ Fight large fire with alcohol resistant foam or water spray</li> </ul>
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#### 5.2 Special hazards arising from the substrate or mixture

Fire Incompatibility	None known
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#### 5.3 Advice for firefighters

Fire Fighting	<ul style="list-style-type: none"> <li>➤ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>➤ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>➤ Prevent, by any means available, spillage from entering drains or water courses.</li> <li>➤ Use firefighting procedures suitable for surrounding area.</li> <li>➤ DO NOT approach containers suspected to be hot.</li> <li>➤ Cool fire exposed containers with water spray from a protected location.</li> <li>➤ If safe to do so, remove containers from path of fire.</li> <li>➤ Equipment should be thoroughly decontaminated after use.</li> </ul>
Fire/Explosion Hazard	<ul style="list-style-type: none"> <li>➤ Non combustible.</li> <li>➤ Not considered a significant fire risk, however containers may burn.</li> </ul>

### SECTION 6 Accidental Release Measures

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

	See section 8
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#### 6.2 Environmental precautions

	See section 12
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#### 6.3 Methods and material for containment and cleaning up

Minor Spills	<ul style="list-style-type: none"> <li>➤ Clear area of personnel.</li> <li>➤ Clean up all spills immediately. Avoid generating dust.</li> <li>➤ Control personal contact with the substance, wear respiratory protection and work suit.</li> <li>➤ Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<p>Moderate hazard.</p> <ul style="list-style-type: none"> <li>➤ Clear area of personnel.</li> <li>➤ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>➤ Avoid generating dust.</li> <li>➤ Evacuate area. Warn affected surroundings.</li> <li>➤ Wear respiratory protection.</li> <li>➤ Afterwards ventilate area, wash spill site and prevent runoff into drains.</li> <li>➤ Prevent penetration into water, drainage, sewer, or the ground.</li> <li>➤ Collect recoverable product into labelled containers for recycling.</li> <li>➤ Inform the responsible authorities about penetration of larger quantities.</li> </ul>

#### 6.4 Reference to other sections

	Personal Protective Equipment advice is contained in Section 8 of the SDS.
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### SECTION 7 Handling and Storage

#### 7.1 Precautions for safe handling

Safe handling	<ul style="list-style-type: none"> <li>➤ Keep out of reach of children and pets.</li> <li>➤ Take care to maintain clean working place.</li> <li>➤ Do not leave container open.</li> <li>➤ Sufficient ventilation must be guaranteed for refilling, transfer, or open use.</li> <li>➤ Avoid splashing.</li> <li>➤ Fill only into labelled container.</li> </ul>
Fire and explosion protection	See section 5
Other information:	None.

## 7.2 Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> <li>&gt; Do not use any food containers - risk of mistake.</li> <li>&gt; Containers have to be labelled clearly and permanently.</li> <li>&gt; Store in the original container as much as possible.</li> <li>&gt; Keep in a dry, cool and well-ventilated place.</li> <li>&gt; Recommended storage at room temperature.</li> </ul>
Storage Incompatibility	Unknown

Package material incompatibilities  
Not Available

## 7.3 Specific end use(s)

Recommendations	See section 1.2
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## SECTION 8 Exposure Controls /Personal Protection

### 8.1 Control parameters

8.1.1 Derived no effect level (DNEL)  
Not Available

8.1.2 Predicted no effect level (PNEC)  
Not Available

8.1.3 Occupational exposure limits (OEL)

### Ingredient data

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Spain	Calcium oxide	Calcium oxide	2 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Denmark	Calcium oxide	Calcium oxide	2 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Belgium	Calcium oxide	Calcium oxide	2 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Sweden	Calcium oxide	Calcium oxide	2.5 mg/m <sup>3</sup>	Not Available	Not Available	Inhalable dust
Germany	Calcium oxide	Calcium oxide	1 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Poland	Calcium oxide	Calcium oxide	2 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	Not Available	Not Available
France	Calcium oxide	Calcium oxide	2 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	Not Available	Not Available
Hungary	Calcium oxide	Calcium oxide	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Not Available	Not Available
Germany	Silicon dioxide	Silicon dioxide	4 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
France	Silicon dioxide	Silicon dioxide	2 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Spain	Diiron trioxide	Diiron trioxide	5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Denmark	Diiron trioxide	Diiron trioxide	3.5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Belgium	Diiron trioxide	Diiron trioxide	5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Sweden	Diiron trioxide	Diiron trioxide	3.5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Poland	Diiron trioxide	Diiron trioxide	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Not Available	Not Available
France	Diiron trioxide	Diiron trioxide	3.5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Hungary	Diiron trioxide	Diiron trioxide	6 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Spain	Aluminium oxide	Aluminium oxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Denmark	Aluminium oxide	Aluminium oxide	5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Belgium	Aluminium oxide	Aluminium oxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Poland	Aluminium oxide	Aluminium oxide	2.5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
France	Aluminium oxide	Aluminium oxide	4 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Hungary	Aluminium oxide	Aluminium oxide	6 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Spain	Titanium dioxide	Titanium dioxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Denmark	Titanium dioxide	Titanium dioxide	6 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Belgium	Titanium dioxide	Titanium dioxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Sweden	Titanium dioxide	Titanium dioxide	5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available


Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Poland	Titanium dioxide	Titanium dioxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
France	Titanium dioxide	Titanium dioxide	5 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Spain	Magnesium oxide	Magnesium oxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Denmark	Magnesium oxide	Magnesium oxide	6 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Belgium	Magnesium oxide	Magnesium oxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Poland	Magnesium oxide	Magnesium oxide	10 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
Hungary	Magnesium oxide	Magnesium oxide	6 mg/m <sup>3</sup>	24 mg/m <sup>3</sup>	Not Available	Not Available

#### Emergency limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Calcium oxide	Calcium oxide	6 mg/m <sup>3</sup>	110 mg/m <sup>3</sup>	660 mg/m <sup>3</sup>
Silicon dioxide	Silicon dioxide	18 mg/m <sup>3</sup>	740 mg/m <sup>3</sup>	4500 mg/m <sup>3</sup>
Diliron trioxide	Diliron trioxide	15 mg/m <sup>3</sup>	360 mg/m <sup>3</sup>	2200 mg/m <sup>3</sup>
Aluminium oxide	Aluminium oxide	15 mg/m <sup>3</sup>	170 mg/m <sup>3</sup>	990 mg/m <sup>3</sup>
Titanium dioxide	Titanium dioxide	30 mg/m <sup>3</sup>	330 mg/m <sup>3</sup>	2000 mg/m <sup>3</sup>
Triiron tetraoxide	Triiron tetraoxide	21 mg/m <sup>3</sup>	230 mg/m <sup>3</sup>	1400 mg/m <sup>3</sup>
Magnesium oxide	Magnesium oxide	30 mg/m <sup>3</sup>	120 mg/m <sup>3</sup>	730 mg/m <sup>3</sup>

Ingredient	Original IDLH	Revised IDLH
Calcium oxide	Not Available	25 mg/m <sup>3</sup>
Silicon dioxide	Not Available	3000 mg/m <sup>3</sup>
Diliron trioxide	Not Available	2500 mg/m <sup>3</sup>
Titanium dioxide	Not Available	5000 mg/m <sup>3</sup>
Magnesium oxide	Not Available	750 mg/m <sup>3</sup>

#### 8.2 Exposure controls

Appropriate engineering controls	<ul style="list-style-type: none"> <li>&gt; Well-ventilated</li> <li>&gt; Firefighting equipment must be available.</li> <li>&gt; Instruction must be provided before employment and then at a minimum of once per annum thereafter.</li> <li>&gt; An escape and rescue plan must be prepared when the location, scale, and use of the work-site so demand.</li> </ul>
Personal protection	
Eye and face protection	<ul style="list-style-type: none"> <li>&gt; Safety glasses with side shields</li> <li>&gt; Chemical goggles.</li> </ul>
Skin protection	<ul style="list-style-type: none"> <li>&gt; See Hand protection below</li> </ul>
Hands/feet protection	<ul style="list-style-type: none"> <li>&gt; Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care.</li> <li>&gt; Textile or leather gloves are completely unsuitable.</li> </ul>
Body protection	<ul style="list-style-type: none"> <li>&gt; Depending on the risk, wear a tight protective clothing or a suitable chemical protection suit.</li> </ul>
Other protection	<ul style="list-style-type: none"> <li>&gt; No special equipment needed when handling small quantities.</li> <li>&gt; OTHERWISE: Overalls. Eyewash unit.</li> </ul>
Respiratory protection	<ul style="list-style-type: none"> <li>&gt; In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn.</li> <li>&gt; A self-contained breathing apparatus can be used in any case</li> </ul>
Thermal hazards	<ul style="list-style-type: none"> <li>&gt; Not Available</li> </ul>

#### Recommended material(s)

The following materials are suitable for protective gloves (Permeation time >= 8 hours):  
Butyl rubber - Butyl (0,5 mm)  
Fluoro carbon rubber - FKM (0,4 mm)

Following materials are unsuitable for protective gloves because of degradation, severe swelling or low permeation time:  
Natural rubber/Natural latex - NR  
Polychloroprene - CR  
Nitrile rubber/Nitrile latex - NBR  
Polyvinyl chloride - PVC

#### 8.3 Environmental exposure controls

See section 12

## SECTION 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Ash black solid		
Odour	Odourless	Partition coefficient n-octanol / water	Not available
Odour threshold	Not available	Auto-ignition temperature(°C)	Not available
pH (as supplied)	Not available	Decomposition temperature	Not available
Melting point / freezing point (°C)	Not available	Viscosity (cSt)	Not available
Initial boiling point and boiling range °C)	Not available	Molecular weight (g/mol)	Not available
Flash point (°C)	Not available	Taste	Not available
Evaporation rate	Not available	Explosive properties	Not available
Flammability	Not available	Oxidising properties	Not available
Upper Explosive Limit (%)	Not available	Surface Tension (dyn/cm or mN/m)	Not available
Lower Explosive Limit (%)	Not available	Volatile Component (%vol)	Not available
Vapour pressure (kPa)	Not available	Gas group	Not available
Vapour density (Air = 1)	Not available	pH as a solution (1%)	Not available
Solubility in water (g/L)	Not available	VOC g/L	Not available
Relative density (Water = 1)	Not available		

### 9.2 Other information

No additional information relevant to safe use of the substance.

## SECTION 10 Stability and Reactivity

Reactivity	Stability at room temperature.
Chemical stability	Product is considered stable and hazardous polymerization will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 Toxicological Information

### 11.1 Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.
Eye	This material can cause eye irritation in some persons.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models).

Silicon dioxide	TOXICITY Not Available	IRRITATION Not Available
Aluminium oxide	TOXICITY Not Available	IRRITATION Not Available
Triiron tetraoxide	TOXICITY LD50 Oral Rat: >5000 mg/kg	IRRITATION Skin Rabbit: No skin irritation Eyes Rabbit: No eye irritation
Calcium oxide	TOXICITY Not Available	IRRITATION Skin Human: Severe skin irritation Eyes Rabbit: Risk of serious damage to eyes
Magnesium oxide	TOXICITY Not Available	IRRITATION Not Available
Dliron trioxide	TOXICITY LD50 Oral Rat: >10000 mg/kg	IRRITATION Skin Rabbit: No skin irritation Eyes Rabbit: No eye irritation
Titanium dioxide	TOXICITY LD50 Oral Rat: >10000 mg/kg LD50 Dermal Rabbit: >10000 mg/kg	IRRITATION Skin Human: Mild skin irritation Eyes Rabbit: No eye irritation
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances	

Titanium dioxide	The majority of animal experiments demonstrated that following non-extreme exposure TiO <sub>2</sub> is stored in the lung tissue without triggering any irritations or any remarkable cell proliferation or fibrosis
Aluminium oxide	The substance can thus be considered as largely nontoxic in cases of non-excessive exposure. Oral intake of massive doses might result in constipation and restricted intestinal motility. In a series of poorly documented cases repeated exposure to AO dusts or those containing Al caused pulmonary damage (fibrosis), which is characterized by the following symptoms: Respiratory disorders initially occur after physical strain, followed by more severe breathlessness and coughing (without mucous secretion), and finally in severe respiratory dysfunctions.
Calcium oxide Trilron tetraoxide Silicon dioxide Magnesium oxide Dilron trioxide	No significant acute toxicological data identified in literature search.

Acute Toxicity	⊘	Carcinogenicity	⊘
Skin Irritation/Corrosion	✓	Reproductivity	⊘
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	⊘
Respiratory or Skin sensitisation	⊘	STOT - Repeated Exposure	⊘
Mutagenicity	⊘	Aspiration Hazard	⊘

Legend:   
 ✓ – Data required to make classification available  
 ✗ – Data available but does not fill the criteria for classification  
 ⊘ – Data Not Available to make classification

CMR Status  
Not Applicable

## SECTION 12 Ecological information

12.1 Toxicity  
Not available

12.2 Persistence and degradability  
Not Available

12.3 Bio accumulative potential:  
Not Available

12.4 Mobility in soil:  
Not Available

12.5 Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Available	Not Available	Not Available
PBT and vPvB Criteria fulfilled	Not Available	Not Available	Not Available

12.6 Other adverse effects  
Not available.

## SECTION 13 Disposal Considerations

Product / Packaging disposal	<p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> <li>➤ Reduction</li> <li>➤ Reuse</li> <li>➤ Recycling</li> <li>➤ Disposal (if all else fails)</li> </ul> <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by some means. Shelf life considerations should also be applied in making decisions of this type.</p> <p>Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</p> <ul style="list-style-type: none"> <li>➤ DO NOT allow wash water from cleaning or process equipment to enter drains.</li> <li>➤ It may be necessary to collect all wash water for treatment before disposal.</li> <li>➤ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>➤ Where in doubt contact the responsible authority.</li> <li>➤ Recycle wherever possible.</li> <li>➤ Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>➤ Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or incineration in a licenced apparatus (after admixture with suitable combustible material).</li> <li>➤ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>
Waste treatment options	Not Available



Sewage disposal options	Not Available
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## SECTION 14 Transport Information

### Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. Packing group	Not Applicable	
14.3. UN proper shipping name	Not Applicable	
14.4. Environmental hazard	No relevant data	
14.5. Transport hazard class(es)	Class Subrisk	Not Applicable Not Applicable
14.6. Special precautions for user	Hazard identification (Kemler) Classification code Hazard Label Special provisions Explosive Limit and Limited Quantity Index ERAP Index	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. Packing group	Not Applicable	
14.3. UN proper shipping name	Not Applicable	
14.4. Environmental hazard	No relevant data	
14.5. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	Not Applicable Not Applicable Not Applicable
14.6. Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. Packing group	Not Applicable	
14.3. UN proper shipping name	Not Applicable	
14.4. Environmental hazard	No relevant data	
14.5. Transport hazard class(es)	IMDG Class IMDG Subrisk	Not Applicable Not Applicable
14.6. Special precautions for user	EMS Number Special provisions Limited Quantities	Not Applicable Not Applicable Not Applicable

### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. Packing group	Not Applicable	
14.3. UN proper shipping name	Not Applicable	
14.4. Environmental hazard	No relevant data	
14.5. Transport hazard class(es)	Not Applicable	
14.6. Special precautions for user	Classification code Limited quantity Equipment required Fire cones number	Not Applicable Not Applicable Not Applicable Not Applicable

### Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Not applicable

## SECTION 15 Regulatory Information

### 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

Silicon dioxide (7631-86-9) is found on the following regulatory lists	Not applicable
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Aluminium oxide (1344-28-1) is found on the following regulatory lists	Not applicable
Triiron tetraoxide (1317-61-9) is found on the following regulatory lists	Not applicable
Calcium oxide (1305-78-8) is found on the following regulatory lists	Not applicable
Magnesium oxide (1309-48-4) is found on the following regulatory lists	Not applicable
Diiron trioxide (1309-37-1) is found on the following regulatory lists	Not applicable
Titanium dioxide (13463-67-7) is found on the following regulatory lists	Not applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Regulation (EU) No 2015/830, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation:- The Control of Substances Hazardous to Health Regulations (COSHH) 2002- COSHH Essentials- The Management of Health and Safety at Work Regulations 1999

## 15.2 Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

Ingredient	CAS number	Index No	ECHA Dossier
Silicon dioxide	7631-86-9	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	GHS07, Wng	H315, H319, H335

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Aluminium oxide	1344-28-1	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	STOT SE 1,	GHS08, Dgr	H370

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Triiron tetraoxide	1317-61-9	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	GHS07, Wng	H315, H319, H335

Harmonization Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Calcium oxide	1305-78-8	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2, Eye Dam. 1, STOT SE 3,	GHS05, GHS07, Dgr	H315, H318, H335

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Magnesium oxide	1309-48-4	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Skin Sens. 1B	GHS07, Wng	H315, H317, H319, H335

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Diiron trioxide	1309-37-1	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Irrit. 2, Eye Irrit. 2, STOT SE 1	GHS07, GHS08, Dgr	H315, H319, H370

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

Ingredient	CAS number	Index No	ECHA Dossier
Titanium dioxide	13463-67-7	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Eye Irrit. 2, STOT SE 1, STOT RE 1	GHS07, GHS08, Dgr	H319, H335, H370

Harmonisation Code 1=The most prevalent classification. Harmonisation Code 2=The most severe classification

National Inventory	Status
Australia-AICS	Y
Canada- DSL/NDSL	Y

China-IECSC	Y
Europe-EINEC/ELINCS/ NLP	Y
Korea-KECI	Y
New Zealand-NZIoC	Y
Philippines -PICCS	Y
USA-TSCA	Y
<b>Legend:</b>	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## SECTION 16 Other information

### Full text Risk and Hazard codes:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H370	Causes damage to organs

### Abbreviations and acronyms:

CAS No	Chemical Abstracts Service number
TWA	Time Weighted Average
STEL	Short term exposure limit
IDHL	Immediately Dangerous to Life or Health Concentrations
DSL	Domestic Substances List
NDSL	Non-Domestic Substances List
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
EINEC	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
NLP	No-Longer Polymers
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TSCA	Toxic Substances Control Act
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity following single exposure
Skin Sens	Skin sensitizer
STOT RE	Specific target organ toxicity following repeated exposure
C&L Inventory	Classification and labeling Inventory
CMR	Carcinogens, mutagens or substances toxic to reproduction
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative

### Other information

Relevant risk statements are found in section 2.1

Indication(s) of danger	Not Applicable
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The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

\*\*\*End of SDS\*\*\*