

**SECTION 1: Identification of the substance/mixture and of the company/undertaking.****1.1. Product identifier**

Product form : Substance

Product name : Dry Alumina Hydrate

EC no : 244-492-7

CAS No. : 21645-51-2

REACH registration No. : 01-2119529246-39-XXXX

Synonyms:- Alumina Hydrate, ATH, Alumina Trihydrate, Aluminium Trihydroxide, Hydrated Alumina

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Use of the substance/preparation:

Substance used as such, in formulation or in formulation of products such as:

- Fluor industry
- Glass
- Ceramics
- Fire resistance in plastic industry
- Catalyst
- Water sedimentation

**1.2.2. Uses advised against**

- Unsafe for human consumption

Full text of use descriptors: see section 16.

**1.3. Details of the supplier of the safety data sheet**

Simba Materials Ltd t/a CTM Potters Supplies

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Doncaster

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nr Exeter

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T +441395 233077 F +44(0)1295 233905

**1.4. Emergency telephone number**

T +44 (0)1709 770801 (Office hours only)

[doncaster@ctmpotterssupplies.co.uk](mailto:doncaster@ctmpotterssupplies.co.uk)

**SECTION 2: Hazards identification.****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Physical and chemical hazards: Not classified

Human health: Not classified

Environment: Not classified

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

**Adverse physicochemical, human health and environmental effects**

Does not pose any health hazard under normal conditions of use and as delivered. Prolonged high dust concentration may cause mechanical irritation of respiratory tract.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 (CLP)**

None

**2.3. Other hazards**

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

**SECTION 3: Composition/information on ingredients.****3.1. Substances**

Chemical name	CAS No.	EC-No.	%	Classification (67/548/EEC)	Classification (1272/2008/EC)
Aluminium hydroxide	21645-51 -2	244-492-7	>99.5	N/A	N/A

**REACH Registration numbers:** Aluminium Oxide - 01-2119529246-39-XXXX

## SECTION 4: First aid measures.

### 4.1. Description of first aid measures

**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion:** Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**Skin contact:** Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

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

**Inhalation:** May cause coughing

**Ingestion:** May cause indigestion

**Skin contact:** No specific symptoms noted.

**Eye contact:** May cause acute redness of the eyes

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

Treat symptomatically.

## SECTION 5: Firefighting measures.

### 5.1. Extinguishing media

**Suitable extinguishing media:** Powder. CO<sub>2</sub>. Sand.

**Unsuitable extinguishing media:** None

### 5.2. Special hazards arising from the substance or mixture

**Fire hazard:** Not flammable.

**Explosion hazard:** No explosive properties known.

**Reactivity:** Stable under normal conditions of handling and storage.

### 5.3. Advice for firefighters

**Protection during firefighting:** No specific fire fighting procedures given.

## SECTION 6: Accidental release measures.

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

**General measures:** Keep public away from danger area. See section 8.2.

#### 6.1.1. For non-emergency personnel

No additional information available

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

### 6.4. Reference to other sections

See section 8 and 13 for more information.

## SECTION 7: Handling and storage.

### 7.1. Precautions for safe handling

**Precautions for safe handling:** Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.

**Packagings:** Even those that have are empty, will retain product residue. Always obey safety warnings and handle empty packages as if they were full. Avoid all contact with this substance.

**Hygiene measures:** When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in section 1.2

**SECTION 8: Exposure controls/personal protection.**

**8.1. Control parameters**

Limit level for repeated exposures:

TWA: Inhalable fraction – 10mg/m<sup>3</sup>

TWA: Respirable fraction – 2mg/m<sup>3</sup>

**DNEL's/DMEL's**

Product	Type	Exposure	Value
Aluminium Hydroxide	DNEL	Short term Oral	6.85 mg/kg bw/day
	DNEL	Short term Inhalation	3.59mg/m <sup>3</sup>

**PNEC's**

No PNEC's available.

**8.2. Exposure controls**

**Appropriate engineering controls:** Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Please refer to the annex (exposure scenarios).

**Hand protection:** Use gloves resistant to chemical products corresponding to EN 374:3. Take advice to gloves' manufacturer.

**Eye protection:** Wear safety glasses with side shields according EN 166.

**SECTION 9: Physical and chemical; properties.**

Physical state	Solid Powder.
Colour	White.
Odour	odourless.
Odour threshold	Not applicable
pH	8 - 10 (100gr/l at 20 <sup>0</sup> C in suspension)
Relative evaporation rate (butylacetate=1)	No data available
Melting point	2,045 <sup>0</sup> C
Freezing point	No data available
Boiling point	2,980 °C
Flash point	Not flammable
Self ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	Not applicable.
Relative vapour density at 20 °C	No data available
Specific gravity	1.2g/cm <sup>3</sup> at 20 <sup>0</sup> C
Density	No data available
Solubility in water	Negligible
Log Pow	Not applicable
Log Kow	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive.
Oxidising properties	Non oxidizing material according to EC criteria.
Explosive limits	Not applicable

**9.2. Other information**

Soluble in acids and bases, and insoluble in common organic solvents.

**SECTION 10: Stability and reactivity.****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal conditions of handling and storage.

**10.3. Possibility of hazardous reactions**

Not relevant.

**10.4. Conditions to avoid**

Exposure to strong acids and bases.

**10.5. Incompatible materials**

Strong acids and bases.

**10.6. Hazardous decomposition products**

No information available.

**SECTION 11: Toxicological information.****11.1. Information on toxicological effects**

No observed adverse effect, but it can be slightly irritating to respiratory tract. Some experiments with animals show that under extreme conditions or exposure, the aluminium oxide does not originate any lung chronic pathology or pneumoconiosis. Only a very fine aluminium oxide (0.02 to 0.04µm) originates pulmonary changes in those animals.

Therefore, if inhalation of particles is controlled by the correct levels of occupational exposure, there should be no harmful effects to people.

Corrosion or skin irritation:-	The dust is slightly irritating
Respiratory or skin sensitization:-	In view of the available data, does not meet the criteria for classification
Germ cell mutagenicity:-	In view of the available data, does not meet the criteria for classification
Carcinogenicity:-	In view of the available data, does not meet the criteria for classification
Reproductive toxicity:-	In view of the available data, does not meet the criteria for classification
Specific target organ toxicity (single exposure):-	In view of the available data, does not meet the criteria for classification
Specific target organ toxicity (repeated exposure):-	In view of the available data, does not meet the criteria for classification
Aspiration hazard:-	In view of the available data, does not meet the criteria for classification

**SECTION 12: Ecological information.****12.1. Toxicity**

If found in small amounts in water, it presents no risks for aquatic life.

Product	Result	Species	Exposure
Aluminium hydroxide	EC50 >100mg/l	Algae - Selenastrum capricornutum	72 hours
	EC50 >100mg/l	Daphnia - Daphnia magna	46 hours
	EC50 >100mg/l	Fish - Salmo Trutta	96 hours

**12.2. Persistence and degradability**

Non-degradable, non-persistent.

**12.3. Bioaccumulative potential**

No bioaccumulative potential.

**12.4. Mobility in soil**

Very slightly soluble, easily sedimenting.

**12.5. Results of PBT and vPvB assessment**

This substance/mixture does not meet the PBT or vPvB criteria of REACH, annex XIII.

**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations.****13.1. Waste treatment methods**

**Waste treatment methods:** Dispose of this material and residues in accordance with local authority requirements.

**Additional information:** Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

**Ecology - waste materials:** See the European waste catalogue.



## SECTION 14: Transport information.

### 14.1. UN number

The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.2. UN proper shipping name

Not classified for transportation.

### 14.3. Transport hazard class(es)

Not classified for transportation.

### 14.4. Packing group

Not classified for transportation.

### 14.5. Environmental hazards

Other information: No environmental hazards known with this product.

### 14.6. Special precautions for user

Not classified for transportation.

### 14.7. 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.

The substance is not listed in Annex 1 (list of chemicals subject to export notification procedure) of Regulation (ECV) No, 689/2008 concerning the export and import of dangerous chemicals.

Since it is not considered a toxic substance, it does not enter into SEVESO category.

### 15.2. Chemical Safety Assessment.

A chemical safety assessment has been carried out according to the rules of Regulation (EC) No. 1907/2006.

## SECTION 15: Regulatory information.

### 16.1. Advice on any training appropriate for workers.

Any chemical can be handled safely provided chemical and toxicological properties are known, together with the use of the appropriate personal protective equipment.

Specific instructions on the properties and chemical characteristics of the product should be clearly identified to staff handling the product. This is good practice to ensure the safety of all personnel involved.

This product should be stored, handled and used in accordance with good procedures of industrial hygiene and to conform with all local, national and international legislation.

See sections 4, 6, 7 and 8 relating of the safety data sheet for more information.

### 16.2. Additional information.

This Safety Data Sheet has been prepared to comply with following regulations of force.

- Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No.1272/2008 on classification, labelling and packaging of substances and mixtures (CLP).
- Regulation (EU) No. 453/2010 amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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