

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Page 1  
Issued: 05/11/2018  
Revision No: 1

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product Identifier:**

**Product Name:** Ground Gypsum Superfine White

**Chemical Name:** Calcium Sulphate

**Relevant identified uses of the substance or mixture and uses advised against:**

**Identified use(s):** Binding agents, Fertilisers, Fillers, Food/feedstuff additives, Intermediates, Laboratory chemicals, pH-regulating agents, Process regulators, other than polymerisation or vulcanisation processes, Processing aid, not otherwise listed, Agents adsorbing and absorbing gases or liquids, Colouring agents, pigments, Complexing agents, The product is intended for industrial use, professional use, private use, for research, analysis and scientific education.

**Uses advised against:** None known

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture:**

**Classification according to Regulation (EC) No. 1272/2008 (CLP):** This substance is not classified as hazardous.

**Classification according to directive 67/548/EEC:** The product is not classified as dangerous.

**Label elements:**

**Labelling according to Regulation (EC) No. 1272/2008:** The product is not labelled according to Regulation (EC) No. 1272/2008.

**Other Hazards:** No special remarkable hazards. Please observe the information given in this safety data sheet.

**Other adverse effects:** Large quantities of dust may be produced during dry-state pulverisation.

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 2

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances:**

<b>Substance name:</b>	Calcium Sulphate $\text{CaSO}_4 \times n \text{H}_2\text{O}$ (n=2)
<b>Index No.:</b>	Not applicable
<b>ID No. of the C&amp;L Inventory:</b>	Not applicable
<b>EC No.:</b>	231-900-3
<b>REACH No.:</b>	01-2119444918-26-XXXX
<b>CAS No.:</b>	7778-18-9
<b>Purity:</b>	Approximately 99% (as Calcium Sulphate Dihydrate)
<b>Synonyms:</b>	Alabaster; E516; Gypsum
<b>Stabilisers:</b>	None.
<b>Hazard impurities:</b>	None.
<b>Additional information:</b>	None.

### 4. FIRST AID MEASURES

**Description of first aid measures:**

<b>General advice:</b>	No adverse effects are expected during normal use of the substance, however if any effects do appear the following recommendations apply.
<b>Eye Contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
<b>Skin contact:</b>	If some discomfort appears immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
<b>Inhalation:</b>	Following inhalation of large quantities of dust remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion:</b>	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Notes for the doctor:</b>	Skin-friendly neutral salt. No allergic reactions known. Soluble dust.

**Most important symptoms and effects, both acute and delayed:** No specific symptoms or effects have been reported

**Indication of any immediate medical attention and special treatment needed:** Not applicable.

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
-----------------------------	---

**Special hazards arising from the substance or mixture:** None

**Advice for fire fighters:** Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

**Special protective equipment for fire-fighters:** None.

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 3

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ventilate area of leak or spill. Wear appropriate personal protective equipment. Avoid generation of dust. Special danger of slipping by leaking/spilling product.

**Environmental precautions:** No special environmental measures are necessary.

**Methods and material for containment and cleaning up:** For containment: All containment for dry substances suitable. For cleaning up: Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

**Reference to other sections:** For personal protection see section 8.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

**Protective measures:** No special provisions if the product is used appropriately. Avoid Dust dispersion, Inhalation of dust/particles, Eye contact.

**Measures to prevent fire:** Product itself does not burn. No special fire protection measures are necessary.

**Measures to prevent aerosol and dust generation:** If technically possible use local exhaust ventilation.

**Measures required to protect the environment:** No special provisions if the product is used appropriately.

**Advice on general occupational hygiene:** Do not eat, drink or smoke in work area. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:** Keep/store in original containers.

**Storage class:** Non-combustible solid

**Specific end use(s):** Recommendations: Industrial sector specific solutions: Worse case exposure scenarios for humans and the environment are attached in Annex I of this safety data sheet.

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 4

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters:** Occupational exposure limits.

	Dust, respirable		Dust, inhalable		Calcium Sulphate	
	Limit value – 8 hours mg/m3	Limit value – short term mg/m3	Limit value – 8 hours mg/m3	Limit value – short term mg/m3	Limit value – 8 hours mg/m3	Limit value – short term mg/m3
<b>Austria</b>	5	10	10	20	5 respirable aerosol	10 respirable aerosol
<b>Belgium</b>	3		10		10	
<b>Denmark</b>			10	20	5	
<b>France</b>	5 respirable aerosol		10			
<b>Germany (AGS)</b>	3	6	10	20	6 respirable aerosol	
<b>Germany (DFG)</b>	1.5		4		4 inhalable aerosol 1.5 respirable aerosol	
<b>Hungary</b>	6		10		6 respirable aerosol	
<b>Latvia</b>	4				6 respirable aerosol	
<b>Poland</b>			10			
<b>Spain</b>	3		10		10 respirable aerosol	
<b>Sweden</b>	5		10			
<b>Switzerland</b>	3		10		3 respirable aerosol	
<b>USA – NIOSH</b>					10 (1) 5 (2)	
<b>USA – OSHA</b>	5		15			
<b>UK</b>	4		10			

**Remarks:**

- Austria STV 15 minutes average value
- France Bold type: Restrictive statutory limit values
- Germany (AGS) 15 minutes average value, insoluble particulates
- Germany (DFG) Insoluble particulates
- Latvia Dust containing chemicals
- USA – NIOSH (1) total dust (2) respirable aerosol

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 5

<b>Dust, mineral, respirable</b>		
	<b>Limit value – 8 hours mg/m3</b>	<b>Limit value – short term mg/m3</b>
Belgium	3	
Denmark	5	10
<b>Biological limit values:</b>	None	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Appearance:</b>	Solid. Powder.
<b>Colour:</b>	Colour varies white, beige, light yellow, grey or reddish tinge or brick red.
<b>Odour:</b>	Neutral
<b>pH (20°C):</b>	In delivery state: not applicable
<b>Melting point/freezing point (°C):</b>	1450
<b>Boiling point (°C):</b>	Not applicable
<b>Flash point (°C):</b>	Not applicable
<b>Flammability:</b>	Not flammable
<b>Upper/lower flammability or explosive limit:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Density:</b>	2.96 g/cm <sup>3</sup>
<b>Bulk density:</b>	About 700-1000 kg/m <sup>3</sup>
<b>Water solubility value (20°C):</b>	About 2 g/l
<b>Self-ignition:</b>	Not self-igniting
<b>Partitioning coefficient (noctanol/water):</b>	Product/substance is inorganic
<b>Auto ignition temperature (°C):</b>	Not applicable
<b>Decomposition Temperature (°C):</b>	Into CaSO <sub>4</sub> x ½ H <sub>2</sub> O and H <sub>2</sub> O about 140°C Into CaSO <sub>4</sub> and H <sub>2</sub> O about 700°C Into CaO and SO <sub>3</sub> about 1000°C
<b>Explosive properties:</b>	Not explosive
<b>Oxidising properties:</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous reactions:</b>	Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide.
<b>Conditions to avoid:</b>	Avoid contamination by sulphur-reducing bacteria and water under anaerobic conditions.
<b>Incompatible materials:</b>	No incompatible materials known.
<b>Hazardous decomposition products:</b>	Decomposition takes place from temperatures above 1450°C

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 6

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

**Acute oral toxicity:** LD50 >1581 mg/kg bw  
Rat OECD 420

**Acute dermal toxicity:**

**Remark:** No dermal toxicity envisaged due to low potential for adsorption

**Acute inhalative toxicity:** LC50 >2.61 mg/l  
Rat OECD 403  
Maximum attainable dose

**Skin corrosion/irritation:** Rabbit OECD 404, not irritating

**Serious eye damage/irritation:** Rabbit OECD 405, not irritating

**Respiratory or skin sensitization:** Guinea pig OECD 406, not a skin sensitizer

**Germ cell mutagenicity:** In vitro tests, OECD 471, OECD 476 not mutagenic  
Mouse OECD 474 not mutagenic

**Carcinogenicity:** No risk of carcinogenicity posed by calcium sulphate

**Reproductive toxicity:** NOAEL 790 mg/kg bw  
Rat OECD 422, no signs of reproductive toxicity observed

**STOT single exposure:** No organ toxicity observed in acute tests

**STOT repeated exposure:** It is considered to classify based on RCS content. STOT RE 2 (if calcium sulphate contains crystalline silica in respirable from >1% - <10%).

**Aspiration hazard:** No aspiration hazard envisaged.

## 12. ECOLOGICAL INFORMATION

### Toxicity:

**Aquatic toxicity:** LC50 >79 mg/l 96 h  
Japanese rice fish OECD 203  
Harmless to fish up to the tested concentration  
LIMIT-test

**Acute fish toxicity:** EC50 >79 mg/l 48 h  
Daphnia Magna OECD 202  
Harmless to daphnia up to the tested concentration

**Acute algae toxicity:** EC50 >79 mg/l 72 h  
Selenastrum OECD 201  
Harmless to algae up to the concentration tested. After neutralisation, toxicity is no longer observed. The product can hydrolyse into Calcium and Sulphate Ions. The stated effect can be caused partly by the decomposition products. The ecological data were measured on the hydrolysed product.

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 7

**Persistence and degradability:**

**Abiotic Degradation:**

**Physical – and photo-chemical elimination:**

**The product hydrolyses quickly in the presence of water to:** Calcium and Sulphate Ions.

The individual components are poorly eliminated from water.

No photo-chemical elimination.

**Biodegradation:**

The methods for determining the biological degradability are not applicable to inorganic substances. Inorganic product which is not eliminated from water through biological cleaning processes.

**Bioaccumulative potential:**

Based on the n-octanol / water partition coefficient accumulation in organisms is not expected. No indication to bioaccumulation potential. The ecological data were measured on the hydrolysed product. According to experiences this product is inert and not degradable biologically.

**Mobility in soil:**

Water-soluble solid. Natural constituent in soils. If product enters soil, it will be mobile and may contaminate groundwater.

**Results of PBT and vPvB assessment:** This substance does not meet the criteria for classification as PBT or vPvB.

**Other adverse effects:**

According to the criteria of the European classification and labelling system, the substance/ the product has not to be labelled as “dangerous to the environment”.

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Product:**

Waste disposal according to EC-regulations 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

**Waste codes / waste designations according to EWC:** 10 WASTES FROM THERMAL PROCESSES

10 12 Wastes from Manufacture of Ceramic Goods, Bricks, Tiles and Construction Products.

10 12 06 discarded moulds.

10 13 Wastes from Manufacture of Cement, Lime and Plaster and articles and products made from them.

10 13 01 waste preparation mixture before thermal processing.

10 13 06 particles and dust (except 10 13 12 and 10 13 13).

17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES).

17 08 Gypsum – based construction material

17 08 02 Gypsum – based construction materials other than those mentioned in 17 01. The allocation of waste identity numbers / waste descriptions must be carried out according to the EEC, specific to the industry and process. The waste is to be kept separate from other types of waste until its recycling.

[cont...]

**SAFETY DATA SHEET**  
Calcium Sulphate  
Ground Gypsum Superfine White

Issued: 05/11/2018

Page 8

**Packaging:** Non-contaminated packages may be recycled.

**Additional Information:**

**Product:** Product can be further used without restrictions if not subsequently contaminated.  
Waste: Recovering / recycling in installations with permit for the waste codes given above.  
Waste disposal on disposal classes for non-inert waste according to 2003/33/EC.

#### 14. TRANSPORT INFORMATION

This product is not classified as a dangerous good under transport regulations ADR, RID, ADN, IMDG, IATA/ICAO.

#### 15. REGULATORY INFORMATION

**EC/GHS Classification:**

**Safety, health and environmental regulations / legislation specific for the substance or mixture:**

**EU regulations:** This substance is not classified as hazardous according to Regulation (EC) No. 1272/2008 (EU-GHS/CLP). This substance is not classified as dangerous according to 67/548/EEC.

**Note:** The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

#### 16. OTHER INFORMATION

**Source of key data used to compile the data sheet:** Supplier information

**Legal disclaimer:** The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.