



## CALCIUM SULFATE HEMIHYDRATE

### SAFETY DATA SHEET

15/05/2018

Rev.00

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

##### 1.1 Product identifiers

Product name : Calcium sulfate hemihydrate  
CAS-No. : 26499-65-0 / 10034-76-1

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

Identified uses: Plaster for use in the production of giftware, fibrous/GRG moulding and for general plaster casting

##### 1.3 Details of the supplier of the safety data sheet

Company : NUH YAPI ÜRÜN. A.Ş.  
Hacı Akif Mah. Nuh Çimento Cad. No:28 41800 Hereke-Körfez/KOCAELİ  
Telephone : +90 262 310 50 00  
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E-mail address : nuhyapi@nuhyapi.com.tr

#### SECTION 2: Hazards identification

##### Classification according to (EC) No. 1272/2008

**Health hazards** Not classified

**Environmental hazards** Not classified

**Physical Hazards** Not classified

Powders may irritate eyes or sensitive skin

Dust may irritate respiratory system

##### Hazard statements

This product is not classified as hazardous therefore no (H) hazard statements assigned.

#### SECTION 3: Composition/information on ingredients

Principally calcium sulphate hemihydrate and natural constituents, which may include clay, limestone and trace amounts of quartz.

##### 3.1 Substances

Formula :  $\text{CaSO}_4 \cdot 0.5\text{H}_2\text{O}$   
Molecular Weight : 145,15 g/mol  
CAS-No. : 26499-65-0 10034-76-1  
EC-No. : 231-900-3

Component	Percent ( by weight )	cas no
1 – Calcium Sulphate hemihydrate	85-95	10034-76-1
2 – Calcium Sulphate Dihydrate ( Gypsum )	1 – 5	10101-41-4
3 – Calcium Carbonate	0 - 3	1317-65-3
4 – Crystalline Silica	0 - 1	14808-60
5- Calcium sulfate	0 – 5	7778-18-9

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## SECTION 4: First aid measures

General instructions

Medical attention is advisable if any symptoms persist

**Inhalation:**

Remove person to fresh air

**Skin contact:**

Flush skin with running water before washing with water and soap

**Eye contact:**

Wash the eyes, including opening eyelids, with plenty of clean water (minimum 15 minutes) and seek medical advice if irritation persists

**Ingestion:**

Wash out mouth and drink plenty of water

**Specific information for Doctor:**

None

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## SECTION 5: Firefighting measures

Suitable extinguishing media

All fire extinguishers are suitable media observing normal fire fighting procedures

**For safety reasons extinguishing media which must not be used:**

None

**Special exposure hazards arising from dust combustion or gas development:**

At high temperatures (more than 1200 °C) sulphur trioxide will be produced

**Special protective safety equipment for fire fighting:**

None

**Additional information:**

The product will not support combustion but the packaging may burn

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## SECTION 6: Accidental release measures

Control and suppress dust formation

**Environmental precaution**

**measures:**

Prevent powder contaminating drains and watercourses

Prevent slurry contaminating drains and watercourses

**Method of cleaning / sweeping up:**

Mechanical pick up (vacuum) or sweep and shovel into

bags Refer to section 8 – Exposure Controls/Personal

Protection Refer to section 13 – Disposal Considerations

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## SECTION 7: Handling and storage

**Handling**

Minimise and control dust when opening bags, mixing powder with water or sanding set plasters

Avoid prolonged or repeated contact with the skin or any eye contact

Wear protective clothing when mixing or working with powdered or wet plasters

**Storage:**

Supplied in bags, on pallets. Store in dry conditions and on firm level ground to maintain pallet stability

If manually handling use correct Manual Handling techniques

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## SECTION 8: Exposure controls/personal protection

Exposure Controls:

### Occupational exposure controls

#### Respiratory protection:

Control dust formation and ventilate the area of work. If dust concentration is above occupational exposure limits then a respiratory filter/face mask to EN 149 :2001 FFP1 minimum should be worn

#### Hand protection:

To avoid prolonged or repeated wet contact wear impermeable gloves. To reduce the effect of hand contact apply a barrier cream

#### Eye protection:

If plaster contact or splashes are likely wear safety goggles to BS EN 166

#### Body protection:

To avoid skin contact wear protective overalls and footwear

### Environmental exposure controls:

Gypsum based preparations are not known to have high potential to damage the environment

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Solid in powder form, off white  
Odour: Odourless, except occasionally slight musty odour

#### Important health, safety and environment information:

pH value 6-8 in 10% aqueous solution  
(distilled) Relative Density Approx. 2.5 – 3.0 g / cm<sup>3</sup>  
Solubility in water Approx. 2.0 g / L

#### Other information:

Thermal decomposition to CaSO<sub>4</sub> and H<sub>2</sub>O approx. 140°C  
Thermal decomposition to CaO and SO<sub>3</sub> approx. 1200°C

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## SECTION 10: Stability and reactivity

Under normal conditions of use these products are stable and unreactive:

### Conditions to avoid:

No dangerous reactions are known

### Materials to avoid:

None

### Hazardous decomposition products:

None under normal conditions of use

When working with higher temperatures (over 1200 degree Centigrade) hazardous sulphur trioxide can develop.

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## SECTION 11: Toxicological information

Toxicological (health) effects

No known available evidence indicating adverse toxicological health effects for acute toxicity, corrosivity/irritation, sensitisation, repeated-dose toxicity, mutagenicity, carcinogenicity, or reproductive toxicity.

**Exposure:**

Inhalation – Plaster dust may irritate respiratory system, no known long term effects

Ingestion- Small amounts of plaster or wet mix should not cause any significant reaction or long term effect

Skin contact- Plaster powder may dry skin leading to irritation if contact is prolonged or skin is sensitive

Eye contact – Powder or wet mix splashes may irritate by particulate in the short term

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**SECTION 12:**

No known negative ecological effects

Products are sparingly soluble in water, forming a solution/slurry and solidifying

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**SECTION 13: Disposal considerations**

Packaging disposal:

Dispose of empty bags in accordance with local Environment Agency Regulations

**Product disposal:**

Dispose of product in accordance with local Environment Agency Regulations

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**SECTION 14: Transport information**

**No special precautions exist with respect to transport**

Not classified as hazardous for transport

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**SECTION 15: Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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**SECTION 16: Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Nuh yapı ürünleri A.Ş. Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.

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