

SAFETY DATA SHEET

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING**1.1. Product identifier:** Substance name **Calciumsulfat , CaSO₄ x n H₂O (n = 0, ½, 2)****Product name :** Alabaster Modellgips**CAS-Nr. 7778-18-9****EG-Nr. 231-900-3****REACH nummer. 01-2119444918-26-0066****1.2. Relevant identified uses of the substance or mixture and uses advised against**

Do not attempt to make a cast enclosing any part of the body : risk of burning.

Relevant identified uses: Binder, mould, construction material (SU3,SU22,SU19)

SCENARIO 1: MANUFACTURING AND INDUSTRIAL PROCESSING

SCENARIO 2: USE AND PRODUCTS IN A NON-INDUSTRIAL SETTING

1.3. Details of the supplier of the safety data sheet

Registered company name : Deffner & Johann GmbH.Address : Mühlackerstr. 13, 97520 Röthlein. Germany.

Telephone : +49 972393500.

Fax : +49972393500

info@deffner-johann.de

1.4. Emergency telephone number : +49972393500 (Mo.Fr: 08:00-15:00)**2.1. Classification of the substance****In compliance with EC regulation No. 1272/2008 and its amendments.**

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

No labelling requirements for this substance.

2.3. Other hazardsThe substance does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European CHemicals Agency (ECHA) under article 57 ofREACH: <http://echa.europa.eu/fr/candidate-list-table>

The substance satisfies neither the PBT nor the vPvB criteria for substances in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATIONS ON INGREDIENTS**3.2. Substances**

Composition :	(CE) 1272/2008	67/548/CEE	Note	%
INDEX: PLASTER 1 CAS: 7778-18-9 EC: 231-900-3 REACH: 1-2119444918-26- (0066)			(1)	[1] 90 \leq x % < 100

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SULFATE DE CALCIUM CASO ₄ + 0,5H ₂ O				
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[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of splashes or contact with eyes :**

Wash thoroughly with water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Wash with soap and water.

In the event of swallowing :

Seek medical attention, showing the label.

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

No specific symptoms or effects have been reported.

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

None

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media**Suitable methods of extinction**

Any means suitable for extinguishing surrounding fire.

Unsuitable methods of extinction

None.

5.2. Special hazards arising from the substance or mixture

None.

5.3. Advice for firefighters

Product itself does not burn.

Special protective equipment for fire-fighters: None.

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Retrieve the product by dry mechanical means (brush/vacuuming) : do not generate dust.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE**7.1. Precautions for safe handling**

Do not generate dust.

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Fire prevention :

N/A Product itself does not burn.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

N/A

7.2. Conditions for safe storage, including any incompatibilities

Avoid the exposure to moisture

Packaging

Store in original packaging.

7.3. Specific end use(s)

No data available.

8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS TWA : STEL : Ceiling : Definition : Criteria :

- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :

CAS VME : VME : Excess Notes
7778-18-9 - 6 mg/m3 A - DFG

- Belgium (Order of 19/05/2009, 2010) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 10 mg/m3 - - - -

- France (INRS - ED984 :2012) :

CAS VME-ppm : VME-mg/m3 : VLE-ppm : VLE-mg/m3 : Notes : TMP N° :
7778-18-9 - 10 - - - -

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 10 mg/m3 - - - -

- Ireland (Code of practice for the safety, Health and Welfare at Work, 2010) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 10 mg/m3 - - - -

- Poland (2009) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 10 mg/m3 - - - - TI

- USA / NIOSH REL (National Institute for Occupational Safety and Health, Recommended exposure limits) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 10 mg/m3 - - - - T

- USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits) :

CAS TWA : STEL : Ceiling : Definition : Criteria :
7778-18-9 15 mg/m3 - - - - T

Substance (mg/m3) :

Country (dust respirable limit value 8 h / dust respirable limit value short time / dust inhalable limit value 8 h / dust inhalable limit value short time)

Austria (5/10/10/20) ; Belgium (3/-/10/-) ; Denmark (-/-/10/20) ; France (5 respirable aerosol-/10/-) ; Germany (AGS) (3/6/10/20) ;

Germany (DFG) (1,5/-/4/-) ; Hungary (6/-/10/-)

; Latvia (4/-/10/-) ; Poland (-/-/10/-) ; Spain (3/-/10/-) ; Sweden (5/-/10/-) ; Switzerland (3/-/10/-) ; USA (OSHA) (5/-/15/-) ; United Kingdom (4/-/10/-).

Remarks :

Austria : STV 15 minutes average value

France : Dust inhalable : restrictive statutory limit values.

Germany (AGS) : 15 minutes average value, insoluble particulates

Germany (DFG) : insoluble particulates

Latvia : dust containing chemicals

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Calcium sulfate (mg/m3) :

Country (limit value 8 h / limit value short time)

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Revision: 26/05/15 1.3 Austria (5 RA/10 RA) ; Belgium (10/-) ; Denmark (5/-) ; Germany (AGS) (6 RA/-) ; Germany (DFG) (4 IA et 1,5 RA/-) ; Hungary (6 RA/-) ; Latvia (6 R/-) ; Spain (10 RA/-) ; Switzerland (3 RA/-) ; USA (NIOSH) (10 PT et 5 RA/-).

RA : respirable aerosol

IA : inhalable aerosol

R : respirable

PT : total dust

Dust mineral respirable (mg/m³) :

Country (limit value 8 h / limit value short time)

Belgium (3/-) ; Denmark (5/10).

Biological limits :

DNEL values (Derived no-effect level) :

DNEL for workers (inhalation) : Acute systemic effects : 5082 mg/m³DNEL for workers (inhalation) : Long term systemic : 21.17 mg/m³DNEL for general population (inhalation) : Acute systemic effects : 3811 mg/m³DNEL for general population (inhalation) : Long term systemic : 5.29 mg/m³DNEL for general population (oral) : Acute systemic effects : 11.4 mg/m³DNEL for general population (oral) : Long term systemic : 1.52 mg/m³

PNEC values (Predicted no-effect concentration) :

Aquatic : Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity of calcium sulfate to fish, invertebrates, algae and microorganisms are generally greater than the highest concentrations tested and are greater than the maximum solubility of calcium sulfate in water.

Sediment : Not applicable due to ubiquitous nature of calcium and sulfate ions in the environment.

Soil : Not applicable due to ubiquitous nature of calcium and sulfate ions in the environment.

STP : 100 mg/L-

Derived no effect level (DNEL) or derived minimum effect level (DMEL):SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)**Final use:**

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Final use:

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Exposure method:

Potential health effects:

DNEL :

Predicted no effect concentration (PNEC):SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Environmental compartment:

PNEC :

8.2. Exposure controls**Personal protection measures, such as personal protective equipment****Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :**

Do not generate dust. Use personal protective equipment that is clean and has been properly maintained.

. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Workers.

Inhalation.

Short term systemic effects.

5082 mg of substance/m³

Inhalation.

Long term systemic effects.

21.17 mg of substance/m³**Man exposed via the environment.**

Ingestion.

Short term systemic effects.

11.4 mg/kg body weight/day

Ingestion.

Long term systemic effects.

1.52 mg/kg body weight/day

Inhalation.

Short term systemic effects.

3811 mg of substance/m³

Inhalation.

Long term systemic effects.

5.29 mg of substance/m³

Waste water treatment plant.

100 mg/l

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In case of splashing, wear protective goggles in accordance with standard EN166.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

- Body protection

Work clothing

- Respiratory protection

Avoid breathing dust.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

General information :

Physical state : Powder

Important health, safety and environmental information

pH : N/A, mixed with water 7-9

Boiling point/boiling range : N/A

Flash point interval : N/A

Vapour pressure (50°C) : N/A

Density : 600-1200.

Water solubility : Soluble. app.. 2g/l

Melting point/melting range : N/A

Self-ignition temperature : no self ignition/ not explosive

Decomposition point/decomposition range :

in CaSO₄ x ½ H₂O und H₂O ca. 140°C (ca. 413 K)in CaO und SO₃ ca. 1000°C (ca. 1273 K)**9.2. Other information**

No data available.

SECTION 10 : STABILITE AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Mixing with an aqueous solution of sodium carbonate will result in the formation of carbon dioxide.

10.4. Conditions to avoid

Avoid :

- formation of dusts

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Decomposition > 1000 °C : Sulfurtrioxide and Calciumoxide

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

No data available.

11.1.1. Substances

Acute toxicity :

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Oral route : LD50 > 1581 mg/kg
Species : Rat

OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

Inhalation route : LC50 > 2.61 mg/l

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Corrosivity : No observed effect.

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Local lymph node stimulation test : Non-Sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Buehler Test : Non-sensitiser.

Species : Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

No mutagenic effect.

Mutagenesis (in vivo) : Negative.

Species : Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro) : Negative.

Carcinogenicity :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Carcinogenicity Test : Negative.

No carcinogenic effect.

Reproductive toxicant :SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

No toxic effect for reproduction

Study on development : Species : Rat

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity

Screening Test) Mutagénèse (in vivo) : Negative.

11.1.2. Substance

No toxicological data available for the substance.

SECTION 12 : ECOLOGICAL INFORMATION**12.1. Toxicity**

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12.1.1. SubstancesSULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)Fish toxicity : LC₅₀ > 79 mg/l

Species : Others

DuraHon of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC₅₀ > 79 mg/l

Species : Daphnia sp.

DuraHon of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : EC₅₀ > 79 mg/l

Species : Selenastrum capricornutum

DuraHon of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Substances

No aquatic toxicity data available for the substance.

12.2. Persistence and degradability**12.2.1. Substances**SULFATE DE CALCIUM CASO₄ + 0,5H₂O (CAS: 7778-18-9)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s)

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)

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- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The substance must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.