

SAFETY DATA SHEET

(REACH regulation (EC) n°1907/2006 - n°453/2010)

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

1.1. Product identifier

Product name: MOLDA 3 BIS Product code: MOLDA 3 BIS.

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

Use of the substance : binding agents, filler.

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

1.3. Details of the supplier of the safety data sheet

Registered company name: PLACOPLATRE®.

Address: 34 avenue Franklin Roosevelt.92282.Suresnes.France. Telephone: +33 (0)1 46 25 46 25. Fax: +33 (0)1 46 25 59 59.

http://www.saintgobainformula.com

Information contact: msds-formula@saint-gobain.com

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA http://www.centres-antipoison.net.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

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

This mixture does not present a health hazard.

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

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

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

This mixture does not present a health hazard.

This mixture 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 mixture.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Safety phrase :

S 22 Do not breathe dust.

2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n°190 7/2006.

3.2. Mixtures

Composition:

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 7778-18-9				50 <= x % < 100
EC: 231-900-3				
REACH: 1-2119444918-26				
SULFATE DE CALCIUM CASO4 + 0,5H2O				

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 soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist. $\label{eq:consult}$

In the event of splashes or contact with skin:

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of swallowing:

Seek medical attention: Skin - friendly neutral salt. No allergic reactions known. Soluble dust.

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.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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 fire-fighters

Fire-fighters 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 mechanical means (sweeping/vacuuming) : do not generate dust.

6.4. Reference to other sections

None.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

No special provisions if the product is used appropriately.

Fire prevention:

Prevent access by unauthorised personnel.

Product itself does not burn.

Coordinate fire fighting measures to the fire surroundings.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available

Storage

To avoid the exposure to moisture

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- France (INRS - ED984 :2008) :

CAS VME-ppm: VME-mg/m3: VLE-ppm: VLE-mg/m3: TMP No: Notes:

7778-18-9 10

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010): CAS TWA: STEL: Definition: Criteria:

Ceiling: 10 mg/m3

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

CAS TWA: STEL: Definition: Criteria: Ceiling:

7778-18-9 10 ma/m3

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

CAS STFL: Ceiling: TWA: Definition: Criteria:

7778-18-9 10 ma/m3

- Poland (2009):

TWA: STEL: Ceiling: Definition: Criteria:

7778-18-9 10 mg/m3

- 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

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

TWA: CAS STEL: Ceiling: Definition: Criteria:

7778-18-9 10 mg/m3

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

CAS TWA: STEL: Ceiling: Definition: Criteria:

7778-18-9 15 mg/m3

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

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

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

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

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Short term systemic effects 5082 mg of substance/m3 DNEL:

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNFI · 21.17 mg of substance/m3

Final use: Man exposed via the environment.

Exposure method: Ingestion. Potential health effects: Short term systemic effects.

DNEL: 11.4 mg/kg body weight/day

Exposure method: Ingestion.

Potential health effects: Long term systemic effects. DNEL: 1.52 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Short term systemic effects. DNEL: 3811 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNFI · 5.29 mg of substance/m3

Predicted no effect concentration (PNEC):

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

Environmental compartment: Waste water treatment plant.

PNEC: 100 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):





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Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

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

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

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

Maintain the general maximum admissible concentration in the work place (refert section 8.1). In case of strong dust emissionwear respiratory filters type FFP 1.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information:

Physical state:

Colour: Colour varies white. beige. light yellow. grey or reddish tinge or brick red

Important health, safety and environmental information

pH: Not relevant Flash point interval: not relevant. Vapour pressure : not relevant. Density: > 1 Water solubility: Soluble.

9.2. Other information

Decomposition into CaSO4, 1/2 H2O and H2O about 140℃ (413K).

Decomposition into CaO and SO3 about 1000℃ (1273K).

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Materials to avoid: No materials known.

10.2. Chemical stability

This mixture 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

10.6. Hazardous decomposition products

No dangerous products of decomposition.

Decompostion takes place from temperatures above: 1450℃

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No data available.

11.1.1. Substances

Acute toxicity:

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

DL50 > 1581 mg/kg Oral route:

OECD Guideline 420 (Acute Oral ToxicityFixed Dose Method)

Inhalation route: CL50 > 2.61 mg/l

Species: Rat

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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.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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)

11.1.2. Mixture

No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

Substances classified as category 1 acute toxicity:

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

Duration of exposure : 96 h Fish toxicity:

CL50 > 79 mg/l

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Species: Others

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: Duration of exposure: 48 h

CE50 > 79 mg/l Species : Daphnia sp

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: Duration of exposure: 72 h

CEr50 > 79 mg/l

Species : Selenastrum capricornutum

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Abiotic Degradation Physical- and photo-chemical elimination: The product hydrolyses quickly in the presence of water to: Calcium and Sulfate lons The individual components are poorly eliminated from water.

Inorganic product which is not eliminable from water through biological cleaning processes.

12.3. Bioaccumulative potential

Based on the n-octanol/water partition coefficient significant 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.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. 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 for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture 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 codes / waste designations according to EWC

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products

10 12 06 discarded moulds

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) on container.

Give to a certified disposal contractor.

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 2011 - IMDG 2010 - ICAO/IATA 2012).

SECTION 15: REGULATORY INFORMATION

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

- 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 mixture 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 mixture and not as a guarantee of the properties thereof

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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.