

Safety Data Sheet

according to UK REACH Regulation



Modelliergips

Revision date: 20/11/2024

Date: 05/05/2016

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

1.1. Product identifier

Stewalin

Further trade names / Item numbers

6 2608 450, 6 2608 452, 6 2608 454

Substance name: calcium sulfate
REACH Registration Number: 01-2119444918-26-
CAS No: 7778-18-9
EC No: 231-900-3

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

Use of the substance/mixture

Moulding material

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	GLOREX GmbH	GLOREX AG
Street:	Großmattstraße 17	Uferstrasse 12
Place:	D-79618 Rheinfelden	CH-4414 Füllinsdorf
Telephone:	+49 7623 72330	+41 61906 8070
E-mail:	info@glorex.com	
Internet:	www.glorex.com	
Responsible Department:	purchase	

1.4. Emergency telephone number:

+49 7623 72330 (Mo - Fr: 8 - 16 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

This substance is not classified as hazardous in accordance with GB CLP Regulation.

2.2. Label elements

Additional advice on labelling

Label elements: none

2.3. Other hazards

Warning. Exothermic reaction with water

Results of PBT and vPvB assessment: not applicable

Endocrine disrupting properties: No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

Gypsum (hemihydrate)

Relevant ingredients

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7778-18-9	calcium sulfate			≤ 100%
	231-900-3		01-2119444918-26-	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7778-18-9	231-900-3	calcium sulfate	≤ 100%
	oral: LD50 ≥ 1581 mg/kg		

Further Information

Exothermic reaction with water

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water and soap.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water.

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

No information available.

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

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable substance

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Do not allow to enter into surface water or drains.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Avoid dust formation. Do not breathe dust.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Take up dust-free and set down dust-free.

Other information

Provide adequate ventilation. Clean floors and contaminated objects with a vacuum cleaner.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a cool dry place. The product is hygroscopic, protect from moisture.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Moulding material

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
10101-41-4	Gypsum, inhalable dust	-	10		TWA (8 h)	WEL
10101-41-4	Gypsum, respirable	-	4		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7778-18-9	calcium sulfate			
	Worker DNEL, long-term	inhalation	systemic	21.17 mg/m ³
	Worker DNEL, acute	inhalation	systemic	5082 mg/m ³
	Consumer DNEL, long-term	inhalation	systemic	5.29 mg/m ³
	Consumer DNEL, acute	inhalation	systemic	3811 mg/m ³
	Consumer DNEL, long-term	oral	systemic	1.52 mg/kg bw/day

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
		oral	systemic	11.4 mg/kg bw/day

PNEC values

CAS No	Substance	Value
7778-18-9	calcium sulfate	
	Micro-organisms in sewage treatment plants (STP)	100 mg/l

Additional advice on limit values

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Hand protection recommended

Skin protection

Use of protective clothing: apron oder lab coat

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Dihydrate loses water of crystallization at 125 - 130 °C.

Hemihydrate loses water of crystallization at >163 °C.

At 1450°C decomposition in CaO and SO₃

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid: powder
Colour:	white - red brown
Odour:	odourless
Melting point/freezing point:	~ 1450 °C
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	> 125 °C
pH-Value (at 20 °C):	7 - 8 (2.4 g/l)
Viscosity / kinematic:	not applicable
Water solubility (at 20 °C):	poorly soluble
Solubility in other solvents	

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not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	2.5 - 3 g/cm ³
Bulk density (at 20 °C):	~ 1200 kg/m ³
Relative vapour density:	not determined
Particle characteristics:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not explosive.

Oxidizing properties

The product is not oxidising.

Other safety characteristics

Evaporation rate: not determined

Solid content: not determined

Further Information

Substance is moisture-sensitive

Exothermic reaction with water

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with aluminium powder or heat, strong reducing agents

10.4. Conditions to avoid

Humidity

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Thermal decomposition: at T > 1400°C decomposition in CaO and SO₃ occurs

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7778-18-9	calcium sulfate				
	oral	LD50 > 1581 mg/kg	Rat	IUCLID	OECD 420

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

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Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

Other information

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
7778-18-9	calcium sulfate					
	Acute fish toxicity	LC50 mg/l	> 1970	96 h	Pimephales promelas	IUCLID
	Acute algae toxicity	EC50 mg/l	> 79	72 h	Pseudokirchnerella subcapitata	IUCLID
	Acute crustacea toxicity	LC50 mg/l	> 79	48 h	Daphnia magna	IUCLID
	Acute bacteria toxicity	EC50 mg/l	> 1000	3 h	activated sludge	IUCLID
						OECD 209

12.2. Persistence and degradability

Not applicable for inorganic substances.

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Non-hazardous waste

List of Wastes Code - residues/unused products

101399 WASTES FROM THERMAL PROCESSES; wastes from manufacture of cement, lime and plaster and articles and products made from them; wastes not otherwise specified

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

- | | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

- | | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

- | | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

- | | |
|--|--|
| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
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National regulatory information

Water hazard class (D):	1 - slightly hazardous to water
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15.2. Chemical safety assessment

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For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

Revised due to Regulation (EU) No 2020/878

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

EC/EEC: European Community/European Economic Community

EU: European Union

M-factor: Multiplying factor

DGR: Dangerous Goods Regulations

ICAO: International Civil Aviation Organization

TI: Technical Instructions

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Modelling compounds	C	-	9b	19	-	-	-	Gypsum

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories