

Trade name: Calcii oxidum

Substance number: 062320

Version: 4 / CH

Date revised: 01.12.2020

Replaces Version: 3 / CH

Print date: 01.12.20

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

1.1. Product identifier

Calcii oxidum

Item No. 06232000

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

Use of the substance/preparation

industry, Manufacture of pharmaceutical products

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT SE 3 H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements ***

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Trade name: Calcii oxidum

Substance number: 062320

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** Calcium oxide

SECTION 3: Composition/information on ingredients *****Molecular weight**

Value	56.08	g/mol
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Hazardous ingredients *****Calcium oxide**

CAS No.	1305-78-8	
EINECS no.	215-138-9	
Registration no.	01-2119475325-36-0017	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Eye Dam. 1	H318
	STOT SE 3	H335

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Remove the casualty into fresh air and keep him calm. Seek medical advice immediately.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with eyes rinse thoroughly with water. Take medical treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice immediately.

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

Irritating to respiratory system.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder, Foam, Carbon dioxide

Non suitable extinguishing media

Water

Trade name: Calcii oxidum

Substance number: 062320

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5.2. Special hazards arising from the substance or mixture

Water

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Keep away unprotected persons. Avoid contact with skin, eyes and clothing. Wear protective equipment. Do not inhale dust. Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. To pick up dry. Pick up mechanically.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Wear protective equipment. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in a dry place.

Hints on storage assembly

Do not store with acids.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

Further information on storage conditions

Protect from atmospheric moisture and water.

SECTION 8: Exposure controls/personal protection *****8.1. Control parameters****Exposure limit values *******Calcium oxide**

List	SUVA	
Type	MAK	
Value	2	mg/m ³
Short term exposure limit	2	mg/m ³
Pregnancy group: S; Remarks: SSc; OAWKT HU; NIOSH		

Trade name: Calcii oxidum

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Derived No/Minimal Effect Levels (DNEL/DMEL)

Calcium oxide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Repeated exposure	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1	mg/m ³

Predicted No Effect Concentration (PNEC)

Calcium oxide

Type of value	PNEC	
Type	Freshwater	
Concentration	0.37	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0.24	mg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Species	Microorganisms	
Concentration	2.27	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	817.4	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not breathe dust. Hold eye wash fountain available. Remove contaminated, soaked clothing immediately and dispose of safely. Avoid contact with skin and eyes.

Trade name: Calcii oxidum

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Version: 4 / CH

Date revised: 01.12.2020

Replaces Version: 3 / CH

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SECTION 9: Physical and chemical properties ***

9.1. Information on basic physical and chemical properties

Form	Solid substance		
Colour	white		
Odour	odourless		
pH value ***			
Value	12.3		
Temperature	20	°C	
Remarks	Saturated solution		
Melting point			
Value	> 450		°C
Flash point			
Value			°C
Remarks	Not applicable		
Flammability (solid, gas)	non flammable		
Upper/lower flammability or explosive limits			
Remarks	non flammable		
Vapour pressure			
Remarks	Not applicable		
Density			
Value	3.31		kg/dm ³
Solubility in water			
Value	1337.6		mg/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reaction with: Water

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Possible incompatibility with materials listed under section 10.5.

10.4. Conditions to avoid

Protect from atmospheric moisture and water.

10.5. Incompatible materials

Incompatible with: Water, Exothermic reaction with acids. Reacts violently with: Aluminium

10.6. Hazardous decomposition products

None

SECTION 11: Toxicological information ***

11.1. Information on toxicological effects

Acute oral toxicity (Components)

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Trade name: Calcii oxidum

Substance number: 062320

Version: 4 / CH

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Replaces Version: 3 / CH

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Species	rat	
LD50	> 2000	mg/kg
Method	OECD 425	

Acute dermal toxicity (Components)**Calcium oxide**

Species	rabbit	
LD50	> 2500	mg/kg
Method	OECD 402	
Remarks	Test conducted with a similar formulation.	
Source	Calciumhydroxid	

Skin corrosion/irritation (Components)**Calcium oxide**

Species	rabbit
evaluation	irritant

Serious eye damage/irritation (Components)**Calcium oxide**

Species	rabbit
evaluation	irritant - risk of serious damage to eyes

Sensitization (Components)**Calcium oxide**

evaluation	non-sensitizing
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Mutagenicity (Components)**Calcium oxide**

evaluation	Information on genotoxicity in vitro available.
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Carcinogenicity (Components)**Calcium oxide**

Remarks	No evidence available on carcinogenicity.
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Specific Target Organ Toxicity (STOT) (Components)**Calcium oxide**

evaluation	May cause damage to organs.
	Organs: Respiratory tract
Source	SCOEL

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity**

Remarks	No data available.
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Algae toxicity

Remarks	No data available.
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12.2. Persistence and degradability**General information**

Not applicable	
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Biodegradability

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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12.3. Bioaccumulative potential

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Substance number: 062320

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Replaces Version: 3 / CH

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General information

Not applicable

12.4. Mobility in soil**Mobility in soil**

Slightly mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential**

The product contains no PBT or vPvB substances.



SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1910	1910	1910
14.2. UN proper shipping name	CALCIUM OXIDE	CALCIUM OXIDE	CALCIUM OXIDE
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	-		
Transport category	0		

SECTION 15: Regulatory information *****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) *****

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

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For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

CLP categories listed in Chapter 3

Eye Dam. 1	Serious eye damage, Category 1
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.