

Trade name: Calcii carbid in fragmentis

Substance number: 062072

Version: 5 / CH

Date revised: 10.08.2021

Replaces Version: 4 / CH

Print date: 10.08.21

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

### **1.1. Product identifier**

Calcii carbid in fragmentis

Item No. 06207200

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

#### **Use of the substance/preparation**

industry, Reagent for analyses

### **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)

Water-react. 1 H260

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 \*\*\***

H260	In contact with water releases flammable gases which may ignite spontaneously.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

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**Precautionary statements \*\*\***

P223	Do not allow contact with water.
P231+P232	Handle and store contents under inert gas/.... Protect from moisture.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378.1	In case of fire: Use dry sand for extinction.
P402+P404	Store in a dry place. Store in a closed container.
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 \*\*\*****Hazardous ingredients \*\*\*****Calcium oxide**

CAS No.	1305-78-8
EINECS no.	215-138-9
Registration no.	01-2119475325-36-0017
Concentration	>= 20 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Eye Dam. 1 H318
	STOT SE 3 H335

**Further ingredients \*\*\*****calcium carbide**

CAS No.	75-20-7
EINECS no.	200-848-3
Registration no.	01-2119494719-18-0000
Concentration	>= 50 %
Advice: [4]	
Classification (Regulation (EC) No. 1272/2008)	
	Water-react. 1 H260

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note T

**Silicon dioxide, chemically prepared, amorphous**

CAS No.	7631-86-9
EINECS no.	231-545-4
Registration no.	01-2119379499-16-0000 (TPR)
Concentration	>= 1 < 10 %
Advice: [4]	

**Magnesium oxide**

CAS No.	1309-48-4
EINECS no.	215-171-9
Concentration	>= 1 < 10 %
Advice: [4]	

**Note**

[4] Voluntary information

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Do not leave casualty unattended. Remove affected person from danger area. Casualty should be kept quiet and covered up. Take off contaminated clothing and shoes immediately. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person. In case of persistent symptoms consult doctor. Adhere to personal protective measures when giving first aid

#### **After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

#### **After skin contact**

In general the product isn't skin irritating.

#### **After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

#### **After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. Summon a doctor immediately.

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

Vomiting, Nausea

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Dry sand, D powder

#### **Non suitable extinguishing media**

Water, Foam, Carbon dioxide

### **5.2. Special hazards arising from the substance or mixture**

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Calcium oxide

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. Use personal protective clothing. Use self-contained breathing apparatus.

#### **Other information**

Do not inhale explosions- and combustion gases. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Do not discharge into surface waters/groundwater.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Keep away sources of ignition.

### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Retain and dispose of contaminated wash water.

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### 6.3. Methods and material for containment and cleaning up

Ensure adequate ventilation. Don't rinse away with water. Take up mechanically and collect in suitable container for disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8. Clear spills immediately. Information regarding waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid dust formation. Keep container tightly closed. Provide suitable exhaust ventilation at processing machines. Smoking, eating and drinking should be prohibited in application area. Do not inhale dust. Avoid contact with skin, eyes and clothing.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated.

#### Hints on storage assembly

Keep away from water. Do not store together with: Oxidizing substances, Acids

#### Storage classes

Storage class according to TRGS 510	4.3	Hazardous substances that release flammable gases when in contact with water
Storage category (Switzerland)	4.3	

Forms flammable gases in contact with water.

#### Further information on storage conditions

Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection \*\*\*

### 8.1. Control parameters

#### Exposure limit values \*\*\*

##### Calcium oxide

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

##### Magnesium oxide

List	SUVA
Type	MAK
Value	3 mg/m <sup>3</sup>
Pregnancy group: S; Remarks: SSc; NIOSH, s. 1.8.2	

##### Silicon dioxide, chemically prepared, amorphous

List	SUVA
Type	MAK
Value	4 mg/m <sup>3</sup>
Pregnancy group: S; Remarks: SSc; LungenfibKT AN	

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### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### calcium carbide

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2	mg/m <sup>3</sup>

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

### Predicted No Effect Concentration (PNEC)

#### calcium carbide

Type of value	PNEC	
Type	Freshwater	
Conditions	Short term	
Concentration	4.62	µg/l

Type of value	PNEC	
Type	Saltwater	
Conditions	Short term	
Concentration	0.462	µg/l

## 8.2. Exposure controls

### Exposure controls

Provide adequate ventilation.

### General protective and hygiene measures

Wash hands and face before breaks and after work. Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Do not eat, drink or smoke during work time.

### Respiratory protection

Breathing apparatus in the event of aerosol. ABEK-P2 (EU EN 143)

### Hand protection

Protective gloves			
Appropriate Material	nitrile rubber - NBR		
Material thickness	>	0.4	mm
Breakthrough time	>	480	min
Hand protection must comply with EN 374.			
Appropriate Material	Polychloroprene		
Material thickness	>	0.6	mm
Breakthrough time	>	480	min
Hand protection must comply with EN 374.			

### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

### Body protection

Protective clothing

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**Environmental exposure controls**

Do not allow to enter drains or water courses.

**SECTION 9: Physical and chemical properties \*\*\*****9.1. Information on basic physical and chemical properties**

**Form** solid  
**Colour** black  
**Odour** characteristic

**Melting point**

Value 2300 °C  
 Pressure 1013 hPa  
 Source ECHA

**Initial boiling point and boiling range**

Remarks not determined

**Flash point**

Value °C  
 Remarks Not applicable

**Flammability (solid, gas)**

Flammable.

**Vapour pressure**

Value 0.0 mmHg  
 Temperature 25 °C  
 Source ECHA

**Density**

Value 2.22 g/cm<sup>3</sup>  
 Temperature 20 °C  
 Source ECHA

**Solubility in water**

Remarks Hydrolysed

**Partition coefficient: n-octanol/water**

log Pow 0.37

**9.2. Other information****Solids content**

Value 100.0 %

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Reactions with water and acids. Alkalis, Oxidising agents, Silvercompounds, copper (Cu)

**10.2. Chemical stability**

Protect from atmospheric moisture and water.

**10.3. Possibility of hazardous reactions**

Water. Can reakt violent with oxygen rich (fire expediting) material. Risk of explosion.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water. Can reakt violent with oxygen rich (fire expediting) material. Risk of explosion.

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**10.5. Incompatible materials**

Contact with water or moisture liberates flammable gases. Acids, Bases, Oxidising agents, Silvercompounds, copper (Cu)

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Calcium oxide**

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 425		

**calcium carbide**

Species	rat		
LD50	>	2000	mg/kg

**Silicon dioxide, chemically prepared, amorphous**

Species	rat		
LD50		3160	mg/kg

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

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

**calcium carbide**

Species	rabbit		
LD50	>	2500	mg/kg

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

Species	rabbit		
evaluation	irritant		

**calcium carbide**

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

Species	rabbit		
evaluation	irritant - risk of serious damage to eyes		

**calcium carbide**

evaluation	irritant - risk of serious damage to eyes		
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**Silicon dioxide, chemically prepared, amorphous**

evaluation	irritant effect possible		
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**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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**Reproduction toxicity (Components)**

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**Calcium oxide**

evaluation No negative effects

**Carcinogenicity (Components)****Calcium oxide**

Remarks No evidence available on carcinogenicity.

**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 (Components)****Calcium oxide****calcium carbide**

LC50 &gt; 50 mg/l

Duration of exposure 96 h

**calcium carbide**

LOEC &gt; 50 mg/l

Duration of exposure 96 h

**calcium carbide**

NOEC 50 mg/l

Duration of exposure 96 h

**Daphnia toxicity (Components)****Calcium oxide****calcium carbide**

EC50 4.62 mg/l

Duration of exposure 48 h

**Algae toxicity (Components)****Calcium oxide**

Reference substance Calcium dihydroxide

**calcium carbide**

ErC50 46 mg/l

Duration of exposure 72 h

**12.2. Persistence and degradability****General information**

No data available

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

log Pow 0.37

**12.4. Mobility in soil****General information**

There is no data available on the product apart from the information given in this subsection.

**Mobility in soil (Components)**



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**Calcium oxide**

Immobile

**12.5. Results of PBT and vPvB assessment****General information**

Not applicable

**Evaluation of persistence and bioaccumulation potential (Components)****calcium carbide**

The Substance doesn't meets PBT/vPvB-criterions

**12.6. Other adverse effects****General information / ecology**

Product is slightly hazardous to water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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

EWC waste code

No not dispose with rubbish.

EWC waste code




Should not be released into the sanitary sewer system.

Dispose of as hazardous waste.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
<b>14.1. UN number</b>	1402	1402	1402
<b>14.2. UN proper shipping name</b>	CALCIUM CARBIDE	CALCIUM CARBIDE	CALCIUM CARBIDE
<b>14.3. Transport hazard class(es)</b>	4.3	4.3	4.3
Label			
<b>14.4. Packing group</b>	II	II	II
Limited Quantity	500 g		
Transport category	2		
<b>14.5. Environmental hazards</b>		no	

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## **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
Identification number	791

### **15.2. Chemical safety assessment**

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.