

CALCON BOARD 900, 1000, 1100 SC

1. IDENTIFICATION OF THE PRODUCTS AND OF THE COMPANY

1.1 Identification of the products

Product name: Calcon 900 SC, Calcon 1000 SC, Calcon 1100 SC

Registration number (REACH) not relevant (article)

CAS number not relevant (article)

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

Relevant identified uses Mineral thermal insulation panels

1.3 Identification of the company

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) not required

2.3 Other hazards

Inhalation of dust may cause respiratory irritation.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

not relevant (article)

3.2 Mixtures

Not relevant (article).

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Name of the substance	Identifier	Wt%	Classification GHS	Pictograms	Specific Conc. Limits	M-factors
Calciumsilicate	CAS No 1344-95-2 EC No 215-710-8	≥ 90				
Cellulose	CAS No 9004-34-6 EC No 232-674-9	3 – < 10				

4. FIRST AID MEASURES

4.1 Description of first aid measures

General notes

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

Following inhalation

(Dust) Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

(Dust) Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

No exposure expected.

Notes for the doctor

none

4.2 Most important symptoms and effects, both acute and delayed

These information are not available.

4.3 Indication of any immediate medical attention and special treatment needed

none

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: co-ordinate firefighting measures to the fire surroundings

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal

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precautions from a reasonable distance.

Special protective equipment for firefighters

use suitable breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ventilate affected area. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill	: Take up mechanically
Advices on how to clean up a spill	: Take up mechanically.
Other information relating to spills and releases	: Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe dust

Measures to prevent fire as well as

aerosol and dust generation

Specific notes/details

Measures to protect the environment

Advice on general occupational hygiene

:	Use local and general ventilation.
:	Dust deposits may accumulate on all deposition surfaces in a technical room.
:	Avoid release to the environment.
:	Do not eat, drink and smoke in work areas. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended. Remove contaminated clothing and protective equipment before entering eating areas.

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7.2 Conditions for safe storage, including any incompatibilities

Flammability hazards	:	None.
Incompatible substances or mixtures	:	Incompatible materials: see section 10.
Protect against external exposure, such as	:	vibration, strong shocks
Consideration of other advice	:	Keep away from food, drink and animal feeding stuffs.
Ventilation requirements	:	Provision of sufficient ventilation.
Packaging compatibilities	:	Keep only in original container.

7.3 Specific end use(s)

No information available

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Identifier	TWA [mg/m ³]	STEL [mg/m ³]	Notation	Source
DE	Dust	AGW	1,25	2,5	Y, r	TRGS 900
DE	Dust	AGW	10	20	Y, i	TRGS 900
DE	Dust	MAK	0,3	2,4	r	DFG
DE	Dust	MAK	4	-	I	DFG

Notation

- i inhalable fraction
- r respirable fraction
- TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
- Y a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
calciumsilicate	1344-95-2	DNEL	4 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
Calciumsilicate	X1344-95-2	PNEC	4 mg/l	freshwater

8.2 Exposure controls

Appropriate engineering controls:

General ventilation.

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Individual protection measures (personal protective equipment)

Eye/face protection:

Dust-Development: Use safety goggle with side protection.

Hand protection:

Wear suitable gloves (Substance, Leather)

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Particulate filter device (EN 143).

Environmental exposure controls:

Keep away from drains, surface and ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	solid
Form	planes
Colour	light grey
Odour	odourless
Melting point/freezing point	1,500 °C
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined
Flash point	not applicable
Auto-ignition temperature	not relevant
Decomposition temperature	not relevant
pH (value)	9 – 11 (water: 100 g/l, 20 °C)
Viscosity (solid) (solid)	not relevant

Solubility(ies)

Water solubility	insoluble
Partition coefficient n-octanol/water (log value)	not relevant (inorganic)
Vapour pressure	not determined

Density and/or relative density

Density	150 – 550 kg/m ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics

no data available

9.2 Other information

Information with regard to physical hazard classes

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: there is no additional information

10. STABILITY AND REACTIVITY

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Test data are not available for the complete mixture.

Acute toxicity of components of the mixture

Name of substance	Cas No	Blootstellingsroute	Eindpunt	Waarde	Species
Calciumsilicate	1344-95-2	Oral	LD50	>5.000 mg/kg	Rat
Calciumsilicate	1344-95-2	Dermal	LD50	>5.000 mg/kg	Rabbit
Calciumsilicate	1344-95-2	Inhalation dust/mist	LD50	≥58,8 mg/l/4h	Rat
Cellulose	9004-34-6	Oral	LD50	>5.000 mg/kg	Rat
Cellulose	9004-34-6	Dermal	LD50	>2.000 mg/kg	Rabbit
Cellulose	9004-34-6	Inhalation dust/mist	LD50	≥5,8 mg/l/4h	Rat

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Skin corrosion/irritation	:	Shall not be classified as corrosive/irritant to skin.
Serious eye damage/eye irritation	:	Shall not be classified as seriously damaging to the eye or eye irritant.
Skin sensitisation	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Respiratory sensitisation	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Germ cell mutagenicity	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Carcinogenicity	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Reproductive toxicity	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Specific target organ toxicity - single exposure	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Specific target organ toxicity - repeated exposure	:	Classification could not be established because: Data are lacking, inconclusive, or conclusive but not sufficient for classification.
Aspiration hazard	:	Shall not be classified as presenting an aspiration hazard.
Other information	:	Inhalation of dust may cause respiratory irritation.

11.2 Information on other hazards

There is no additional information.

Endocrine disrupting properties

None of the ingredients are listed.

12. ECOLOGICAL INFORMATION

Name of the substance	Exposure time	Endpoint	Value	Species	Cas No
Calciumsilicate	96h	LL50	>1000 mg/l	Rainbow trout (Oncorhynchus mykiss)	1344-95-2
Calciumsilicate	72h	EL50	>1.000 mg/l	alg (Desmodesmus subspicatus)	1344-95-2
Calciumsilicate	48h	EL50	≥10.000 mg/l	daphnia magna	1344-95-2

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Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

12.2 Persistence and degradability

Biodegradation Data are not available.

Persistence Data are not available.

12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

n-octanol/water (log KOW) not relevant
(inorganic)

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions

14. TRANSPORT INFORMATION

14.1 UN number not assigned

14.2 UN proper shipping name -

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14.3 Transport hazard class(es) none

Class -

14.4 Packing group -

14.5 Environmental hazards -

14.6 Special precautions for user .

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

-

15. REGULATORY INFORMATION

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

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

None of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed

Seveso Directive

Not assigned.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

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Wassergefährdungsklasse, WGK

(water hazard class) 1

Technical instructions on air quality control (Germany)

Number	Group of substances	Conc.	Mass flow	Mass concentration	Notation
5.2.1	total dust, including micro-dust	≥ 25 wt%	0,2 kg/h	20 mg/m ³	2)

Notation

2) even with a mass flow smaller than or equal to 0.20 kg/h, a mass concentration of 0.15 g/m³ in waste gas may not be exceeded

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK)

13

(non-combustible solids)

Other information

Observe occupational restrictions for mothers acc. to § 11 MuSchG!

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Abbreviations and acronyms

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations

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IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") NLP No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).
International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula)