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

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

INSULCON B.V.
Zilverhoek 4, 4651 SP STEENBERGEN
Tel. : +31 (0)167-565750
www.insulcon.com
info@insulcon.com

INSULCON N.V.
Belgium
Tel. : + 32 (0)3 711 02 78

INSULCON GMBH
Germany
Tel.: +49 (0)2131 408548-0

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

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

not relevant (article)

3.2 Mixtures

Not relevant (article).

Hazardous ingredients acc. to EU regulation

None

Product of ingredients listed below

Calciumsilicate, Cellulos

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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
water, foam, alcohol resistant foam, fire extinguishing powder
Unsuitable extinguishing media
water jet

5.2 Special hazards arising from the substance or mixture
Hazardous decomposition products: Section 10.

Hazardous combustion products
carbon monoxide (CO), carbon dioxide (CO_2)

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.

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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

Hazardous combustion products: see section 5.
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	:	Use local and general ventilation.
Specific notes/details	:	Dust deposits may accumulate on all deposition surfaces in a technical room.
Measures to protect the environment	:	Avoid release to the environment.
Advice on general occupational hygiene	:	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.

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.
Specific designs for storage rooms or vessels	:	Store in a dry place.
Packaging compatibilities	:	Keep only in original container.

7.3 Specific end use(s)

No information available

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	Identifier	TWA [mg/m³]	STEL [mg/m³]	Notation	Source
DE	Dust	AGW	4		i	DFG
DE	Dust	AGW	10	20	Y, i	TRGS 900
DE	Dust	MAK	1,25	2,5	Y,r	TRGS 900
DE	Dust	MAK	0,3	2,4	rI	DFG

Notation

- i inhalable fraction
- r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15 minute period (unless otherwise specified)

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

Human health values

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
calciumsilicate	1344-95-2	DNEL	4 mg/m³	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	1344-95-2	PNEC	4 mg/l	freshwater

8.2 Exposure controls

Appropriate engineering controls:

General ventilation.

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).

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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 (panels)
Colour	light grey
Odour	odourless
Melting point/freezing point	1500 °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)	not relevant
(solid)	
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/m³ 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

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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	Method	Source
Calciumsilicate	1344-95-2	Oral	LD50	>5.000 mg/kg	Rat	OECD Guideline 401	ECHA
Calciumsilicate	1344-95-2	Dermal	LD50	>5.000 mg/kg	Rabbit	OECD Guideline 401	ECHA
Calciumsilicate	1344-95-2	Inhalation dust/mist	LD50	≥58,8 mg/l/4h	Rat	OECD Guideline 401	ECHA

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Cellulose	9004-34-6	Oral	LD50	>5.000 mg/kg	Rat		GESTIS
Cellulose	9004-34-6	Dermal	LD50	>2.000 mg/kg	Rabbit		GESTIS
Cellulose	9004-34-6	Inhalation dust/mist	LD50	≥5,8 mg/l/4h	Rat		GESTIS

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

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (acute)
Based on available data, the classification criteria are not met.

Name of the substance	CAS No	Exposure time	Endpoint	Value	Species	Method	Source
Calciumsilicate	1344-95-2	96h	LL50	>1000 mg/l	Rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA
Calciumsilicate	1344-95-2	72h	EL50	>1.000 mg/l	alg (Desmodesmus subspicatus)	OECD Guideline 203	ECHA
Calciumsilicate	1344-95-2	48h	EL50	≥10.000 mg/l	daphnia magna	OECD Guideline 203	ECHA

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

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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 -

14.3 Transport hazard class(es) -
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
NNone of the ingredients are listed

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list
None of the ingredients are listed

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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)

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/m³	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.

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16. OTHER INFORMATION

Abbreviations and acronyms

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)

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de nav igation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con cerning the International Carriage of Dangerous Goods by Road)
AGW	Workplace exposure limit
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub stances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DFG	Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
ED	Endocrine disruptor
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)

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LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethalit
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Ppm	Parts per million
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)
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulativ

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 2020/878/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).

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