1. IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Identification of the product
1.1. Product identifier
Product form : Article
Trade name/designation: Insulcon Insulating Fire Bricks

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Main use category : Professional use
Use of the substance/mixture: Insulating agents

1.2.2. Uses advised against
No additional information available
Use of the product
Insulating refractory linings of industrial furnaces and kilns and other thermal process equipment as hot face or backup insulation.

Identification of the company

INSULCON B.V.
The Netherlands
Tel. : +31 (0)167-565750
Website: www.insulcon.com
Email: 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]
Not classified

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Article.
Not applicable.

2.3. Other hazards
Other hazards:
The product is supplied as an article and is not classified as carcinogenic under the CLP Regulation. However, it may contain trace amounts of crystalline silica in the form of quartz and cristobalite. Operations that generate dust, such as cutting, grinding, crushing, dismantling or renovation, may result in exposure to respirable crystalline silica. Prolonged or repeated occupational exposure to respirable crystalline silica dust can cause silicosis, a serious lung disease, and is associated with an increased risk of lung cancer. The International Agency for Research on Cancer (IARC) has classified inhaled crystalline silica, in the form of quartz or cristobalite from occupational sources, as carcinogenic to humans (Group 1).

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Effective: 10092026/PdB/ka
Supersedes: None
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IARC also notes that carcinogenic effects have not been observed in all industrial circumstances studied.

Cristobalite formation may increase after prolonged use of the product at elevated temperatures. For this reason, appropriate dust-control measures and suitable personal protective equipment should be used whenever dust-generating activities are carried out. Contains no PBT and/or vPvB substances 0.1% assessed in accordance with REACH Annex XIII.

Contains no substances identified as having endocrine disrupting properties (Article 59(1) of REACH - criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Not applicable

3.3 Article

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quartz substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	0.1 – 1	STOT RE 1, H372
Cristobalite substance with a Community workplace exposure limit	CAS-No.: 14464-46-1 EC-No.: 238-455-4	0.1 – 1	STOT RE 1, H372

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

4. FIRST-AID MEASURES

4.1. Description of first aid measures

Additional advice:

First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.

Inhalation:

Blow nose. Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.

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Skin contact:
Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. Do not rub affected area. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of doubt or persistent symptoms, consult always a physician.

Ingestion:
Do not induce vomiting. Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: Itching.
Skin contact	: Dry skin.
Eyes contact	: Redness.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Chronic symptoms	: Silicosis. May cause damage to organs through prolonged or repeated C exposure.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media : carbon dioxide (CO_2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media: Strong water jet.

5.2. Special hazards arising from the substance or mixture
Specific hazards : Not flammable.
Hazardous decomposition products in case of fire: Continuous use at temperature above 900°C will generate a large amount of fire cristobalite inside bricks, greatly increasing dust hazard during subsequent crushing, dismantling and renovation.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Selfcontained breathing apparatus.
Other information :	Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation.

Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

For emergency responders: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the solid spill. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Large spills: scoop solid spill into closing containers. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling:

Avoid dust formation. Minimize cutting and grinding operations and install local exhaust ventilation at processing stations. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible
Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures:

Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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7.2. Conditions for safe storage, including any incompatibilities
Storage conditions:
Keep container tightly closed. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.
Incompatible materials for storage:
hydrogen fluoride.

Packaging materials:
Keep only in the original container. Suitable material: No data available.

Unsuitable material:
No data available.

7.3. Specific end use(s)
Reference to other sections: 1.2.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters
8.1.1 National occupational exposure and biological limit values
Comments:
The occupational exposure limits apply to respirable crystalline silica dust.
The Insulcon Fire Bricks are supplied as articles and are not classified as carcinogenic under the CLP Regulation.

Quartz (14808-60-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystaline (Quartz)
IOEL TWA	0.05 mg/m³ (respirable dust)
Remark	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations
Netherlands - Occupational Exposure Limits	
Local name	Respirabel kristallijn silicastof: – kwarts
TGG-8u (OEL TWA)	0.075 mg/m³ (respirable fraction (Silica, crystalline (respirable size))
Remark	Kankerverwekkende stof
Regulatory reference	Arbeidsomstandighedenregeling 2026

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Cristobalite (14464-46-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Silica crystaline (Cristobalite)
IOEL TWA	0.05 mg/m³ (respirable dust)
Remark	(Year of adoption 2003)
Regulatory reference	SCOEL Recommendations

Netherlands - Occupational Exposure Limits	
Local name	Respirabel kristallijn silicastof: – cristoballiet
TGG-8u (OEL TWA)	0.075 mg/m³ (respirable fraction (Silica, crystalline (respirable size))
Remark	Kankerverwekkende stof
Regulatory reference	Arbeidsomstandighedenregeling 2026

*See chapter 2.3

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	Personal air monitoring. Room air monitoring.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.1.5. Control banding

No additional information available

8.2. Exposure controls

Engineering measure(s):

Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling.

Personal protective equipment:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Hand protection:
Wear chemically resistant gloves (tested to EN374). Suitable material: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough time : refer to the recommendations of the supplier.

Thickness of the glove material:
Not determined

Eye protection:
Use suitable eye protection (EN ISO 16321-1:2022)

Body protection:
Wear suitable protective clothing

Respiratory protection:
For dust concentrations below the exposure limit value, RPE is not required but FFP2 respirators may be used on a voluntary basis. For short-term operations where excursions are less than ten times the limit value, use FFP2 respirators. In case of higher concentrations, or where the concentration is not known, please seek advice from your company and/or local supplier. Not required for normal conditions of use.

Thermal hazard protection:
Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls:
Avoid release to the environment. Comply with applicable Community environmental protection legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Beige.
Appearance:	porous. bricks.
Odour:	slight odour.
Odour threshold:	No data available Melting / freezing point : > 1700 °C
Freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	Not available
Lower explosion limit:	Not applicable (Solid)
Upper explosion limit:	Not applicable (Solid)
Flash point:	Not applicable (Solid)
Auto-ignition temperature:	Not applicable (Solid)
Decomposition temperature:	No data available

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pH value:	No data available
pH solution:	Not available
Kinematic viscosity:	Not applicable (Solid)
Dynamic viscosity:	No data available
Solubility: Water:	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Vapour pressure: `	No data available
Vapour pressure at 50°C:	No data available
Density:	0.5 – 1.8 g/cm³
Relative density:	No data available
Vapour density:	No data available
Particle size:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

See Section 7 for information on safe handling.

10.5. Incompatible materials

Hydrogen fluoride.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal):

Not classified (Based on available data, the classification criteria are not met)

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Acute toxicity (inhalation):
Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation:
Not classified (Based on available data, the classification criteria are not met)
pH value: No data available
Serious eye damage/irritation:
Not classified (Based on available data, the classification criteria are not met)
pH value: No data available
Respiratory or skin sensitisation:
Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity:
Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity:
Not classified (Based on available data, the classification criteria are not met)

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans

cristobalite (14464-46-1)	
IARC group	1 - Carcinogenic to humans

*** Comments:**
The Insulcon Fire Bricks are supplied as articles and are not classified as carcinogenic under the CLP Regulation. See chapter 2.3

Reproductive toxicity:
Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure:
Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure:
Not classified

Quartz (14808-60-7)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

cristobalite (14464-46-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

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Aspiration hazard:
Not classified (Based on available data, the classification criteria are not met)

Insulcon Insulating Fire Bricks	
Kinematic viscosity	Not applicable (Solid)

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Other adverse effects : May cause damage to organs through prolonged or repeated exposure.
Other information : Symptoms related to the physical, chemical and toxicological Characteristics. For further information see section 4.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Environmental properties:
According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Hazardous to the aquatic environment, short term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

12.2. Persistence and degradability

Persistence and degradability : No additional information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (Log Kow) : No data available
Bioaccumulative potential : No additional information available.

12.4. Mobility in soil

Mobility in soil : No data available

12.5. Results of PBT and vPvB assessment

Results of PBT assessment : Contains no PBT and/or vPvB substances 0.1% assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No data available.

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13. DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Product/Packaging disposal recommendations:
Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : 17 06 03* - other insulation materials consisting of or containing dangerous substances
This material and its container must be disposed of as hazardous waste Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / AND

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Special precautions for user: No data available
- Overland transport

Not applicable

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- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC: No data available.

15. REGULATORY INFORMATION

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List) Not applicable.

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Detergent Regulation (648/2004/EC): Labelling of contents

Labelling for contents according to regulation (EC) No. 648/2004

15.1.2. National regulations

Netherlands : Not applicable

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

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SZW List of Carcinogenic Substances : cristobalite is listed
SZW List of Mutagenic Substances : None of the components are listed
SZW List of Reprotoxic Substances – Breastfeeding : None of the components are listed
SZW List of Reprotoxic Substances – Fertility : None of the components are listed
SZW List of Reprotoxic Substances – Development : None of the components are listed

15.2. Chemical safety assessment
No data available

16. OTHER INFORMATION

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EL50	Median effective level
EN	European Standard
ErC50	EC50 in terms of reduction of growth rate
ErL50	EL50 in terms of reduction of growth rate
EWC	European waste catalogue
GHS	Global Harmonised System
IATA	International Air Transport Association
ICPE	installations classées pour la protection de l'environnement
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
LC50	Median lethal concentration
LD50	Median lethal dose
LL50	Median lethal level

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NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
NOELR	No observed effect loading rate
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
QSAR	Quantitative structure-activity relationship
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL	Short term exposure limit
STOT	Specific Target Organ Toxicity
SZW	ministerie van Sociale Zaken en Werkgelegenheid
TWA	Time Weighted Average
UFI	Unique Formula Identifier
VOC	Volatile Organic Compounds
vPvB	Very persistent and very bioaccumulative
WGK	Water Hazard Class

Sources of key data used to compile the Insulcon datasheet
ECHA (European Chemicals Agency)

Training advice:
Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP] Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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