

PYROGEL XTE

Regulation (EC) No 1907/2006 and 453/2010 (REACH)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER : Pyrogel XTE

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against
Product Use: High performance insulation material
Uses Advised Against: None.

1.3 Details of the Supplier of the Substance or Mixture

Manufacturer

INSULCON B.V.

The Netherlands

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INSULCON N.V.

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INSULCON GMBH

Germany

Tel.: + 49 (0) 2131 548-0

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

CLP/GHS Classification (1272/2008):

Health Hazards

Not Hazardous

Physical Hazards

Not Hazardous

Environmental Hazards

Not Hazardous

EU Classification (67/548/EEC):

Not dangerous

2.2 LABEL ELEMENTS

Not hazardous in accordance with the Regulation (EC) 1272/2008 CLP.

2.3 OTHER HAZARDS: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS Number	EC No.	EU Classification (67/548/EEC)	Percent	CLP/GHS Classification (1272/2008)
Synthetic Amorphous Silica (synthetic amorphous silica)	7631-86-9	231-545-4	Not dangerous	30-40%	Not hazardous

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Methylsilylated Silica	68909-20-6	272-697-1	Not dangerous	10-20%	Not hazardous
Fibrous Glass (textile grade)	Not applicable	Not applicable	Not dangerous	40-50%	Not hazardous
Iron Oxide (iron (III) oxide)	1309-37-1	215-168-2	Not dangerous	1-10%	Not hazardous
Aluminium trihydrate (aluminium hydroxide)	21645-51-2	244-492-7	Not dangerous	1-5%	Not hazardous
Other components are either non-hazardous ingredients or are below the concentration limit for classification.	Mixture	Mixture	Not dangerous	Balance	Not hazardous

See section 16 for full text of GHS and EU Classifications.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation: If dust is inhaled, remove to fresh air. Drink water to clear throat, and blow nose. If irritation occurs or symptoms develop, seek medical attention.

Eyes: Do not rub eyes. Dust particles may cause abrasive injury. Immediately flush eyes with water while lifting the upper and lower lids. Seek medical attention if irritation persists.

Skin: Wash skin with soap and water. If irritation develops, seek medical attention, launder clothing before reuse.

Ingestion: No first aid is generally required. No adverse effects are expected from incidental ingestion.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Dust may cause eye irritation. Aerogels are hydrophobic (repel water) and may cause temporary drying and irritation of the skin, eyes, and mucous membranes. Inhalation of dust from handling may cause temporary upper respiratory tract irritation. Handling may cause dryness and irritation of the skin.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Immediate medical attention is generally not required.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA: Use media appropriate for surrounding fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Product is a super-insulator. Rolls of material will retain heat within internal layers that may be a source of ignition after the fire is extinguished. Keep hot material away from combustible materials and cool hot insulation with water.

5.3 ADVICE FOR FIRE-FIGHTERS: Normal firefighting procedures should be followed to avoid inhalation of smoke and gases produced by a fire.

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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Wear appropriate protective clothing and equipment as described in Section 8. Avoid generating airborne dust during cleanup. Ensure adequate ventilation.

6.2 ENVIRONMENTAL PRECAUTIONS: Material is not water soluble. Report spills as required under national and local regulations.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Collect using methods that avoid the generation of dust (pick up or vacuum dust) and place in appropriate container for disposal.

6.4 REFERENCE TO OTHER SECTIONS: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: Pyrogel blankets may generate dust when handled. Workplace exposures to all dusts should be controlled with standard industrial hygiene practices. Local exhaust should be the primary dust control method. Dry vacuuming is the preferred method for cleaning up dust. Because Aerogel dust is hydrophobic, water is not an effective dust control agent. Unpack material in the work area. This will help to minimize the area where dust exposure may occur. Trimmed material should be promptly packed in disposal bags. Trims and offcuts may be reused in secondary applications. Scrap material should be packed for disposal. Avoid dust contact with eyes, skin and clothing and avoid breathing dust. Wash hands with soap and water after handling.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep tightly closed in the packaging until ready for use. Store in a dry location.

7.3 SPECIFIC END USE(S):

Industrial uses: Insulation

Professional uses: Insulation.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Synthetic Amorphous Silica (as PNOC)	3 mg/m ³ TWA Belgium OEL (respirable aerosol) 10 mg/m ³ TWA Belgium OEL (inhalable aerosol) 5 mg/m ³ TWA France OEL (respirable aerosol) 10 mg/m ³ TWA France OEL (inhalable aerosol) 1.5 mg/m ³ TWA DFG MAK (respirable aerosol) 4 mg/m ³ TWA DFG MAK (inhalable aerosol) 4 mg/m ³ TWA UK WEL (respirable aerosol) 10 mg/m ³ TWA UK WEL (inhalable aerosol)
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Methylsilylated Silica (as PNOC)	3 mg/m ³ TWA Belgium OEL (respirable aerosol) 10 mg/m ³ TWA Belgium OEL (inhalable aerosol) 5 mg/m ³ TWA France OEL (respirable aerosol) 10 mg/m ³ TWA France OEL (inhalable aerosol) 1.5 mg/m ³ TWA DFG MAK (respirable aerosol) 4 mg/m ³ TWA DFG MAK (inhalable aerosol) 4 mg/m ³ TWA UK WEL (respirable aerosol) 10 mg/m ³ TWA UK WEL (inhalable aerosol)
Fibrous Glass (textile grade)	1 fibre/cm ³ TWA Belgium OEL 1 fibre/cm ³ TWA France OEL
Iron Oxide (iron (III) oxide)	10 mg/m ³ TWA Belgium OEL 5 mg/m ³ TWA, 10 mg/m ³ STEL UK WEL
Aluminum trihydrate (aluminum hydroxide)	10 mg/m ³ TWA Belgium OEL (respirable) 1.5 mg/m ³ TWA DFG MAK (respirable aerosol) 4 mg/m ³ TWA DFG MAK (inhalable aerosol)

8.2 EXPOSURE CONTROLS:

Recommended Monitoring Procedures: Collection on filters with gravimetric analysis. Refer to BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Appropriate engineering controls: Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is processed in a manner that generates dust.

Personal Protective Measures

Respiratory protection: If exposures exceed the occupational exposure limits or if inhalation of dust results in experiencing irritation, an appropriate certified particulate respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select, fit and use in accordance with local and national regulations.

Skin protection: Impervious gloves complying with EN 374 recommended for handling product. Long-sleeved and long-legged work clothing are also advised.

Eye protection: Safety glasses with side shields or dust goggles in compliance with EN 166 recommended.

Other: None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Maroon fabric
Odor:	Slight ammonia
Odor threshold:	0.6-53 ppm (ammonia)
pH:	Not applicable

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Melting point/freezing point:	Not determined
Boiling point:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	Not flammable
Flammable limits: LEL:	Not applicable
UEL:	Not applicable
Vapor pressure:	Not applicable
Vapor density (air = 1):	Not applicable
Relative density:	Not determined
Solubility In Water:	Insoluble in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not determined
Viscosity:	Not applicable
Explosive Properties:	None
Oxidizing Properties:	None

9.2 OTHER INFORMATION: None available

10. STABILITY AND REACTIVITY

10.1 REACTIVITY: Not reactive under normal conditions of use.

10.2 CHEMICAL STABILITY: Stable

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: None known.

10.4 CONDITIONS TO AVOID: Avoid prolonged exposure above the recommended use temperature.

10.5 INCOMPATIBLE MATERIALS: None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Under recommended usage conditions, hazardous decomposition products are not expected.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Potential Health Effects:

Inhalation: Inhalation of dust may cause temporary irritation of the mucous membranes and upper respiratory tract.

Ingestion: No adverse effects expected, however, do not ingest.

Skin contact: Handling may cause dryness and temporary irritation of the skin.

Eye contact: Contact may cause irritation with redness and tearing. Dust may cause abrasive injury.

Chronic Effects: None known.

Sensitization: Components are not known to be sensitizers.

Germ Cell Mutagenicity: None of the components have been shown to cause germ cell mutagenicity.

Reproductive Toxicity: Components are not reproductive toxins.

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Carcinogenicity: None of the components are classified as a carcinogens or suspected carcinogens by EU CLP.

Acute Toxicity Values: Components are not acutely toxic.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: No data is available

12.2 Persistence and degradability: Biodegradation is not applicable to inorganic substances.

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: Not required.

12.6 Other adverse effects: Not required.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods: Dispose in accordance with all national and local regulations.

14. TRANSPORT INFORMATION

	14.1 UN number	14.2 UN proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Not regulated			
Canadian TDG		Not regulated			
EU ADR/RID		Not regulated			
IMDG		Not regulated			
IATA/ICAO		Not regulated			

14.6 Special precautions for User: Not applicable

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code):

Not applicable – product is transported only in packaged form.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

REACH-Products are articles.

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REACH - Candidate List of Substances of Very High Concern: This product does not contain substances of very high concern **Concern for Authorisation (Article 59).**

German WGK: Not Hazardous to waters

16. OTHER INFORMATION

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

None

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None