

**MATERIAL SAFETY DATA SHEET**

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Product name: **PERIL****1. Product and company identification**

- 1.1 Product identification: PERIL, heat-insulating block
- 1.2 Product usage: Peril blocks are heat-insulation elements with very low density. They allow easy processing. They are intended to be used mainly as a secondary insulation in lining of heating aggregates.
- 1.3 Company identification: PERIL PRODUCTION s. r. o.  
Svitavská 500  
678 01 Blansko  
Czech Republic Phone: +420 516 412 566
- 1.4 Emergency phone number:  
Toxicological Information Centre – TIS,  
Na Bojišti 1, 128 08 Prague 2  
Phone: (non-stop service) +420 224 919 293, +420 224 915 402

**2. Information on ingredients**

The product does contain the dangerous ingredient:

- 2.1 Hazardous components: Portland cement
- 2.1.1 Product - percentage: 30-70 % depending on product type
- 2.1.2 CAS number: 65997-15-1
- 2.1.3 ES number: 266-043-4
- 2.1.4 Classification: Xi - Irritant
- 2.1.5 R-phrases: R 36/37/38: Irritating to eyes, respiratory system and skin.  
R 43: May cause sensitisation by skin contact.

**3. Hazards identification**

- 3.1 Product is classified as harmless in terms of its content of chemical substances.
- 3.2 Product has no serious adverse effects on health.
- 3.3 When processing the product, particular risks arise from mechanical dividing blocks in small enclosed unventilated areas. When processing the product, it is necessary to mitigate dustiness.

**4. First aid measures**

- 4.1 Inhalation: Remove the afflicted person to fresh air; ensure absolute rest, oxygen inhalations.  
Half-sitting position, protection from cold and direct sun.  
Transport to a doctor.
- 4.2 Skin contact: product is not harmful.
- 4.3 Eye contact: Immediately rinse the eye from the internal corner to the external corner with plenty of tepid water or solution saline for 10-15 minutes.

**5. Fire-fighting measures**

- 5.1 Suitable extinguishing media: no limitations regarding the extinguishing media, product is not flammable
- 5.2 Extinguishing media not to be used: not applicable
- 5.3 Special hazards: none
- 5.4 Special protective equipment: not needed

**6. Accidental release measures**

- 6.1 Personal precaution: It is necessary to ensure that the workplace is adequately ventilated, dustiness is limited; contact of dust with eyes should be avoided.
- 6.2 Environmental precaution: none.
- 6.3 Method for cleaning up: Remove the product mechanically, dispose it in the same way as building waste. Ensure sufficient ventilation during handling.

**7. Handling and storage**

- 7.1 Handling:
  - 7.1.1 Safe handling precaution: Ensure ventilation of the workplace. Do not eat, drink and smoke when working.
  - 7.1.2 Environmental precaution: Ensure removal of dust and sufficient exhaustion in the workplace, do not use the product in small enclosed areas.
  - 7.1.3 Specific handling requirements: none.
- 7.2 Storage:
  - 7.2.1 Conditions for safe storage: no specific requirements.
  - 7.2.2 Storage conditions: store in a dry place.
  - 7.2.3 Specific usage: Peril blocks are used for heat insulation of construction walls.

**8. Exposure control and personal protection**

- 8.1 Exposure limits: It is necessary to monitor the content of fibrogenous dust in the working environment.
- 8.2 Exposure precaution: Workplace for handling the product should be ventilated in best possible way.
  - 8.2.1 Occupational exposure precaution: Staff members have to use personal protection devices specified below in this section.
    - 8.2.1.1 Respiratory protection: In case of a short-term exposure or low concentration, a respirator with dust filter should be used. In case of high concentration and long-term exposure, self-contained breathing apparatus is necessary.
    - 8.2.1.2 Hand protection: Protective gloves
    - 8.2.1.3 Eye protection: Safety shield or goggles.
    - 8.2.1.4 Skin protection: Protective clothing and footwear. After working, wash your hands and exposed skin and use hydration or regeneration cream.
  - 8.2.2 Environment exposure precaution: Dispose it in the same way as building waste.

**9. Physical and chemical properties**

- 9.1 General information:
 

Appearance:	grey granular block
Odour:	none
- 9.2 Important health, safety and environmental characteristics:
 

pH:	not identified
boiling point:	not identified
flash point:	not flammable
flammability:	the product is not flammable
explosive properties:	not explosive
oxidation properties:	none
vapour pressure:	not identified
density:	250 - 1050 kg/m <sup>3</sup> depending on the form of block
solubility in water:	not soluble
solubility in fats:	not soluble
n-octanol/water partition coefficient:	not identified
viscosity:	not identified
vapour density:	not identified
evaporation rate:	not identified
- 9.3 Other information:
 

melting point:	not identified
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**10. Stability and reactivity**

- 10.1 Conditions to avoid: When exceeding the classified temperatures (depending on the form of block), melting of product occurs.
- 10.2 Materials to avoid: Chemical corrosion by acids may occur.
- 10.3 Hazardous decomposition products: none

**11. Toxicological information**

- 11.1 Exposure has no harmful effects.
- 11.2 Long exposure to air with high-concentrated dust from the product may cause respiratory diseases.

**12. Ecological information**

- 12.1 Ecotoxicity: The product is not harmful to environment.
- 12.2 Mobility: The expected distribution of ingredients in environment is not identified.
- 12.3 Stability and degradability: The product is stable in water and soil, it is not degradable in water treatment plants.
- 12.4 Bioaccumulation potential: not identified.
- 12.5 Other adverse effects: not known.

**13. Appropriate method of disposal**

- 13.1 Safe handling: Limit the dustiness to minimum.
- 13.2 Removal of product and packages: In the same way as building waste.
- 13.3 Waste treatment regulations: Observe all local, state and international regulations.

**14. Transport information**

- 14.1 Special transport precaution: none.
- 14.2 Transport classification:
  - Road and railway transport ADR/RID:
    - UN number: not applicable Hazard class: not applicable
    - Package group: not applicable
    - Names of transported substances: -
  - Sea transport IMDG:
    - UN number: not applicable Hazard class: not applicable
    - Package group: not applicable

**15. Regulatory information**

- 15.1 Packaging warning label: none
- 15.2 Specific provisions: none

**16. Other information**

- The product is classified as **not harmful to health**
- 16.1 R-Sentences: none
  - S-Sentences: none
  - 16.2 Training instructions: Highlight the importance of the requirement to use personal protective equipment, not to smoke, eat and drink in the workplace, to observe personal hygiene after the completion of work.
  - 16.3 Recommended restrictions of use: none
  - 16.4 Other information: More detailed information on the product shall be provided by the manufacturer.
  - 16.5 Sources of the most important data used to compile the safety data sheet: List of obligatorily classified hazardous chemical substances (Annex 1 to Decree No. 232/2004 Coll.), ESIS sources.