

# Material Safety Data Sheet

Regulation (EC) No 1907/2006 of the European Parliament and of the Council (REACH)

## EXPANDED PERLITE

Date released: 3. May 1999

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Date revised: 1. July 2008

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1. Product identification

**Trade name:** EP 100, EP 150OM, EP 150PB, AGRO  
**CAS:** 93763-70-3  
**EINECS number:** Unknown  
**Generic name:** Expanded Perlite  
**Chemical name:** Amorphous alumina silicate

#### 1.2. Use of the preparation

- Production of thermal insulates plaster, concrete and masonry malt
- Production of fire boards and refractory roofing
- Insulation gritting
- Auxiliary soil substance

#### 1.3. Company identification

**Manufacturer:** PERLIT PRAHA, spol.s r.o.  
**Address:** 198 00 Prague 9, Průmyslová 881  
**Company REG. No:** 49614223 (Czech Republic)  
**Registration in CZE:** Městský soud v Praze, oddíl C, vložka 21027 z 14.6.93  
**Telephone:** +420 272 701 281  
**Fax:** +420 272 700 715  
**E-mail:** perlit@perlitpraha.cz  
**Internet:** www.perlitpraha.cz  
**Contact person:** Karel Menšík, tel: +420 602 336 121  
e-mail:mensik@perlitpraha.cz

#### 1.4. Emergency information

**Toxicological centre:** Toxicological Information Centre, Prague 2, Na bojišti 1,  
tel. +420 224 919 293  
**General emergency:** 112 Europe

### 2. HAZARD IDENTIFICATION

**2.1. Classification of the substance or preparation:** By Directive 1999/45/EC is not classified as dangerous.

**2.2. Adverse physical-chemical effects, effects on health and the environment, symptoms related to the use and potential inappropriate use:** Dust particles during large air flow may, in the short term, irritate eyes and respiratory system.

**2.3. Other risks or effects on the environment:** None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Chemical characteristics of substance:** Mineral substance. Rock of volcanic origin with the chemical composition: min. 69% SiO<sub>2</sub> and max.18%Al<sub>2</sub>O<sub>3</sub>, 6%CaO+MgO, 8%Na<sub>2</sub>O+K<sub>2</sub>O, 3%Fe<sub>2</sub>O<sub>3</sub>.

**3.2. The substance contains such hazardous substances and materials to set the highest concentrations in the working atmosphere:** The substance does not contain hazardous substances and admixtures.

### 4. FIRST AID MEASURES

**4.1. General guidelines:** If there is any contamination, it is not required immediate medical assistance. Contact help line in case of doubts, or apparent health problems occur. Provide information from the Material Safety Data Sheet.

**4.2. Inhalation:** Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust.

**4.3. Skin contact:** After working with substance, wash skin in a water and use a reparation cream.

**4.4. Eyes:** Flush eyes with large quantities of water. If Irritation persists contact a doctor.

**4.5. Ingestion:** Do not try to vomit, wash mouth, and drink about 0.2 litres of water.

**4.6. Other information. Information for doctor:** Treatment is symptomatic.

### 5. FIRE FIGHTING MEASURES

**5.1. Appropriate extinguishing:** All extinguishing agents that are adapting to extinguish a fire in the vicinity.

**5.2. Inadequate extinguishing:** None.

**5.3. Unusual Fire or Explosion Hazards:** None.

**5.4. Special Fire-Fighting Procedures:** None.

**5.5. Other information:** The substance is used as extinguishing agent. Is classified in Group A-fire substance (non-flammable).

### 6. ACCIDENTAL RELEASE MEASURES

**6.1. Preventive measures to protect people:** Use personal protective equipment, see chapter 8.

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**6.2. Preventive measures for environmental protection:** Substance, which was spilled out, gathers to the original packaging or its replacement.

**6.3. Suggested methods for cleaning and depreciation:** Cleaning see chapter 6.2. Use municipal waste landfill for depreciation of unused materials.

### 7. HANDLING AND STORAGE

**Summary:** Minimize dust generation and accumulation. Avoid breathing dust, avoid contact with eyes. Seal broken bags immediately. Continue to follow all label warnings when handling empty containers.

**7.1. Handling:** Safe handling does not require any special precautionary measures.

**7.2. Guidelines for storage:** Store in the original packaging in dry areas without humidity. Keep out of children. In compliance with the conditions of storage, period of applicability is not limited.

**7.3. Instructions for use:** See the technical note PN 72 12 71.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1. Exposure limits:** For this type of material are not determined.

**8.2. Exposure:** Prevent dust scattering of the substance at the workplace.

**8.2.1. Reducing the exposure of workers:** Use ordinary personal protective equipment.

**8.2.1.1 Respiratory protection:** It is not necessary if there is a high concentration of dispersion of fine particles in the working atmosphere. If necessary, use safe veil or respirator.

**8.2.1.2. Eye protection:** Beware of contact with eyes. Wear goggles.

**8.2.1.3. Protection of hands and skin:** It is not necessary. Upon the completion of the work wash hands and skin with water and treat it with reparation cream.

**8.2.2. Reducing exposure to the environment:** Any.

**8.3. Other information:** Do not eat, drink or smoke, while working. Always keep the usual measures for the protection of health at work. Do not touch eyes, while working.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Appearance and Odour

<b>Condition:</b>	powdery solid
<b>Colour:</b>	white, grey-white
<b>Odour:</b>	NA (not indicated)

#### 9.2. Information important for the health, safety and environment

<b>PH:</b>	6 – 8	<b>Solubility ( °C):</b>	insoluble in water, toluene and oil
<b>Boiling point (°C):</b>	NA (not indicated)	<b>Viscosity:</b>	NA (not indicated)
<b>Flashpoint (°C):</b>	NA (not indicated)	<b>Vapour density:</b>	NA (not indicated)
<b>Flammability:</b>	non-flammable	<b>Evaporation rate:</b>	NA (not indicated)
<b>Explosive properties:</b>	NA (not indicated)	<b>Melting point (°C):</b>	1200 - 1300
<b>Oxidizing properties:</b>	NA (not indicated)	<b>Conduction:</b>	non-conducting
<b>Vapour Pressure (°C):</b>	NA (not indicated)		
<b>Density (°C):</b>	NA (not indicated)		

#### 9.3. Other information

<b>Granularity:</b>	0 – 1 mm, 0 – 2mm, 0 – 4mm
<b>Specific gravity (bulk):</b>	up to 180 kg/m <sup>3</sup>
<b>Thermal conductivity:</b>	0.049 W.m-1st-1

### 10. STABILITY AND REACTIVITY:

The substance in contact with other substances is chemically stable and does not react dangerously. Hazardous polymerization cannot occur. The substance swim in water and even after a longer time does not sink.

**10.1. Conditions to be avoided:** High air flow, wind.

**10.2. Materials, which may not come into contact:** Not found.

**10.3. Hazardous decomposition products:** None.

### 11. TOXICOLOGICAL INFORMATION

**11.1. Acute toxicity.** There are not toxicological data available. Substance does not have toxic content.

<b>Inhaling:</b>	no adverse effects
<b>Ingestion:</b>	no adverse effects
<b>Relations with the skin:</b>	no adverse effects
<b>Relations with the eyes:</b>	no adverse effects

#### 11.2 Chronic toxicity

<b>Sensitising:</b>	no data
<b>Carcinogenicity:</b>	no data

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Mutagenicity: no data

Toxicity for reproduction: no data

### 12. ECOLOGICAL INFORMATION

12.1. Ecotoxicology: substance does not have an adverse effect on the aquatic environment and organisms

12.2. Mobility: no data

12.3 Persistence and degradability: no data

12.4. Bioaccumulative potential: no data

12.5 The results of the assessment of PBT: no data

12.6. Other adverse effects: no data

12.7. Other information: substance is insoluble, swims on water. It does not have negative impact on the environment

### 13. DISPOSAL CONSIDERATIONS

13.1. Removal of substance: Not used substance put into the original package or its replacement. Code waste 010102. Used packages return to the collection. The manufacturer has contract of re-collection and recovery of packaging with company EKO-COM.

13.2. Disposal of contaminated materials: According to relevant rules and the law on waste, as amended. Used packages - see 13.1. Code waste 170604.

13.3. Legislature: Evidence of waste according to the Act No 185/2001 Coll. on waste as Amendment to Some Other Acts, Decree 381/2001 Coll. Catalogue of waste, Decree 383/2001 Coll. the waste, Decree 376/2001 Coll. the evaluation of the characteristics of hazardous waste.

### 14. TRANSPORTATION INFORMATION

14.1. Substance is not dangerous for transport

14.2 Paper packaging is necessary to protect before their torn and against humidity.

### 15. REGULATORY INFORMATION

Substance is under the Council Directive EHS nr.67/548/EHS from 27.6.1967 on laws relating to the classification, packaging and labelling of dangerous substances and 1999/ES classified as substance: Not hazardous.

15.1. Information by the law, which must appear on the package

R-phrases: none

S-phrases: S 22 do not breathe dust

S 39 use personal protective equipment for the eyes and face

15.2. Specific regulations concerning the protection of persons or the environment at the EC: Does not apply.

15.3. The legislation contains specific regulations concerning the protection of persons and the environment: European Parliament and Council Regulation (EC) č.1097/2006, 178/2001 Coll. conditions for health of workers, Act No 258/2000 Coll. on the protection of public health, Act No 86/2002 Coll. on the protection of air, Decree 355/2002 Coll. emission limits, Decree 356/2002 Coll. regulation list of pollutants and Act No 477/2001 Coll. on packaging.

### 16. OTHER INFORMATION

16.1 List of all R and S-phrases mentioned in this Material Safety Data Sheet

R-phrases: none

S-phrases: S 22 do not breathe dust

S 39 use personal protective equipment for the eyes and face

16.2. Directive for training: The Labour Code, as amended.

16.3 Recommended limits: Not set.

16.4. Sources of information: Data producer and classification of substances according to Decree 232/2004 Coll. EN 13055-1, Protocol 030-033606 TZUS, on the sulphur content, chloride and sulphate salts, Protocol M 54/07 on measurement radioactivity.

Prepared/Revised by: Karel Menšík

Title: Business director

*Safety Data Sheet contains data to ensure the safety and health at work and environment. These data correspond to the current state of knowledge and experience and are in accordance with applicable law. They can not be considered as a guarantee of the suitability and application of the product for a specific application.*