

EXPANDED GLASS

1. SUBSTANCE / PREPARATION/ARTICLE- AND COMPANY DESCRIPTION

Description of item: Expanded glass

Other item (synonyms): porous, blown glass.

Usability of substance/preparation/article: inorganic insulating material with low thermal conductivity coefficient, suitable for lightweight aggregate production, for dry construction mixtures production, as grouts, adhesives, paints and fire-resistant mixture component.

Company: JSC „STIKLOPORAS“, Lithuania

Address: Verpėjų g. 22, LT 66496, Viečiūnų km., Druskininkų sav.

2. POSSIBLE DANGERS

Email: info@stikloporas.lt

Designation of danger: non-flammable.

Information on danger for human: during processing can appear pollution of dust (dust of glass); often contact to skin results in getting shapped hands; Ingestion of small particles may adversely affect the digestive and respiratory system.

Information on danger for environment: none.

3. COMPOSITION/DETAILS OF COMPONENTS

Stikloporas expanded glass is an article according to REACH and not a raw material or mixture. It is excluded from the labelling requirement (see item 15).

Chemical description: inorganic thermal expanded glass granules based on recycled glass (bottle glass and flat glass).

Hazardous ingredients: none.

CAS No. : 65997-17-3

EINECS No.(ELINCS No.): 266-046-0.

Chemical composition:

| SiO ₂ | Al ₂ O ₃ | K ₂ O+Na ₂ O | CaO+ MgO | Fe ₂ O ₃ | Other |
|------------------|--------------------------------|------------------------------------|-------------|--------------------------------|-------|
| 71,0-73,0 | 1,5-2,0 | 13,0-14,0 | 8,0-10,5 | <0,3 | <0,5 |

4. FIRST AID MEASURES

After contact to eyes: irrigate eyes with running water, holding eyelids elevated for at least 10 minutes. If possible, remove contact lenses. Seek medical treatment.

After contact to skin: irrigate with running water.

After inhalation: to get some fresh air.

After swallow: seek medical treatment.

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5. FIREFIGHTING MEASURES

Non-flammable, heat resistant to 750 ° C. Melts at >1000 ° C.

Suitable substances for fire extinction: material is nonflammable it is possible to use water spray, carbon dioxide, dry chemical powder or appropriate foam.

Personal protective equipment: Use breathing apparatus and protective clothing, boots.

Hazardous substances: none.

6. MEASURES IN CASE OF UNINTENTIONAL RELEASE

In case of emergency it is necessary to use personal protective equipment.

Precautions in regard to persons: mask or respirator with dust filter A/P2, rubber gloves, safety goggles, coveralls, rubber boots.

Protective measures for the environment: should not enter the sewage system; floats up account of very low density; danger of blockage of pipelines.

Treatment of cleaning: pick up try; disposals see point 13.

7. HANDLING AND STORAGE

Handling: use in accordance with the regulations of the manufacture. Avoid contact with skin and eyes.

Storage requirements: store in a dry, cool place. The package must be sealed.

Unsuitable (incompatible) with the storage of chemical substances: none.

Requirements for a chemical product packaging: plastic Big Bags.

8. EXPOSITION LIMITS AND PERSONAL PROTECTION GEAR

Critical values for protection at work: 4 mg/m³.

Technical measures: good indoor ventilation.

Precautions in regard to persons: mask or respirator with dust filter A/P2, rubber gloves, safety goggles, coveralls, rubber boots.

Personal hygiene: wash hands before eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

Environmental exposure controls: avoid contact with soil or sewage system.

Appearance: granular solid

Sensory characteristics: creamy-white, odourless.

pH: 7-12

Flammability: non-flammable.

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Solubility: insoluble in water.

Density: 100-400 kg/m³.

Particle size: 0 to > 8 mm.

Heat transfer coefficient: 0.04 to 0.08 W / mK.

10. STABILITY AND REACTIVITY

Stability: the product is stable.

Substances that cause dangerous chemical reactions: none.

Hazardous decomposition products: none.

Stabilizers: none.

Reacts with acids: soluble in hydrofluoric acid.

Unstable Combustion Products: none.

11. DETAILS OF TOXICITY

Acute toxicity: no data found.

Chronic toxicity in experimental animals: no data found. **Carcinogenicity, mutagenicity, reproductive toxicity:** none. **Effects on humans:** none.

12. DETAILS OF ECOLOGY

Effect to environment: none.

Ecotoxicity (toxicity to aquatic and soil organisms, plants and other animals): no data found.

Mobility: insoluble in water.

13. TIPS FOR DISPOSAL

Code-No. of European Catalogue of waste: 170202

Method of disposal:

Do not dump into the environment, not to release the drain, pour in the water and onto land. Do not dump together with municipal waste disposal products. Contact waste disposal service. Waste disposal may be the only licensed company.

Packaging methods of disposal: empty containers should be recycled whenever possible. Contact a specialist waste treatment facility.

14. TRANSPORT DETAILS

European Agreement on Dangerous Goods by Road (RID / ADR), International Maritime Dangerous Goods "of the Code (IMDG) requirements: not applicable.

Transporting large quantities, and the IBC 7378 under MARPOL Annex II: no restrictions.

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15. REGULATIONS

Legal acts regulating the chemical and product classification, labelling, use of restraints, safety and health, occupational exposure limit values, Waste Regulation, and others.

THE EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No.1907/2006 of 2006. on 18 December. concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) Nr.793/93 and Commission Regulation (EC) Nr.1488 / 94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (EU Official Journal, Nr. L 396, 2006-12 - 30, Corrigendum - No. L 136/3, 2007 5 29).

Dangerous substances and classification and labelling procedures. (Approved by the Minister and the Minister of Health in 2000. December 19th. Order No. 532/742, 2002 June 27. Order No. 345/313 approved (Official Gazette, 2002, Nr. 81-3501,). Changes: Official Gazette., 2003, no.: 81 (1) -3703, 2005, no. 115-4196, 2007, no. 22-849, 2008, Nr. 66-2517.

Hazardous chemicals and packaging requirements for products and packaging procedures. Approved by the Minister of Environment in 2002. November 19, order no. 599, msg., 2002, no. 115-5161, 2008, no. 53-1989).

Special first aid equipment and hazardous chemicals and biological agents cause acute health problems list (Approved by the Minister of Health in 2003. December 24. Order No. V-769, Official Gazette. In 2004, no. 7-157).

HN 23:2007 "Occupational Exposure Limit values. Measurement and impact assessment, General Requirements (Approved by the Republic of Lithuania and the Minister of Health of the Republic of Lithuania for social protection and labour minister in 2007. October 15. Order No. V-827/A1- 287, msg., 2007, no. 108-4434).

Workers' supply of personal protective equipment regulations. (Approved by the Republic of Lithuania for social protection and labour minister in 2007. On 26 November. Order No. A1-331, Official Gazette., 2007, Nr123-5055).

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Packaging and Packaging Waste Regulations (Approved by the Minister of Environment in 2002 June 27. Order No. 348, msg., 2002, Nr. 81-3503).

Waste management regulations. (Approved by the Minister of Environment in 2003. On 30 December. Nr.722 Order, Official Gazette., 2004, Nr. 68-2381, 2008, Nr. 55-2109).

This product is excluded of the REACH-Registration obligation according to EC 1907/2006 appendix V.11.

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16. OTHER DETAILS

MANUFACTURER'S WARRANTY:

The manufacturer guarantees the cellular glass beads brand STIKLOPORAS compliance with the company's standard requirements and provide warranty shelf life of 5 years, if the user takes it the transportation, storage and use of rules.

ABBREVIATIONS:

REACH - Registration, Evaluation, Authorisation and Restrictions ATE - The Acute Toxic

CLP - Classification, labelling, packaging [Regulation (EC) No.1272/2008] Euh - European Union Special Hazard statements (Euh phrases)

DNELs - Limiting Effect Level

PNEC - predicted no-effect concentration RRN - REACH registration number.

NOTE:

The data of this safety sheet IS based on current knowledge and experience. This safety data sheet is to describe the product in accordance with the safety requirements. The above data does not provide any guarantees concerning the composition, properties or results when used with any other chemicals or associated with other technological processes.

This data sheet of Regulation (EC) No.1907/2006 requirements.

All information collected by the company's data and its publication is considered accurate and reliable products delivered.