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Material Safety Data Sheet
(according to 1907/2006/EB –
REACH – 31 item and II
annex)

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Status of:
2012-04-16

METAKAOLIN

1. SUBSTANCE/PREPARATION/ARTICLE- AND COMPANY DESCRIPTION

Description of item: METAKAOLIN

Other item (synonyms): dehydroxylated kaolin

Company: JSC „STIKLOPORAS“, Lithuania

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

Telephone: +370 313 47710; fax: +370 313 47710; email: info@stikloporas.lt

2. POSSIBLE DANGERS

According to Directive 67/548/EEC – does not apply.

In accordance with Regulation (EC) 1272/2008 on the label elements

Alert item –



Hazard Statement – H373: May cause damage to organs (lungs), or if the material is repeated (by inhalation).

Precautionary statements: P260: Do not breathe dust; P285: In case of insufficient ventilation, wear respiratory protection; P501: Dispose content/Dispose of packaging according to the current waste management arrangements.

Designation of danger: nonflammable

Information on danger for humans: it may cause damage to organs (lungs), where through prolonged or repeated (by inhalation).

Information on danger for environment: this product is an inorganic material and does not meet the criteria for PBT or vPvB according to REACH Annex XIII.

3. COMPOSITION/DETAILS OF COMPONENTS

Chemical description and composition:

CAS Nr.	EINECS Nr.	Chemical description	Percent (%)	Classification according to (EC) Nr. 1272/2008 [CLP]
1332-58-7	310-194-1	Kaolin calcined	Balance	nonclassified
014808-60-7	238-878-4	Total Quartz (SiO ₂)	1-20	STOT RE 2


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4. FIRST AID MEASURES

Eye contact: in case of contact with eyes wash with plenty of water and seek medical attention if irritation persists.

After contact with skin: wash skin with soap and water. Use a moisturizing lotion for the skin.

Inhalation: it is recommended to leave the fresh air.

Ingestion: first-aid measures required. Thoroughly rinse the mouth. If irritation persists, consult a doctor.

Key symptoms and effects, both acute and delayed

Non-acute, and not to delay the symptoms and effects monitored.

Reference to any immediate medical attention and special treatment

There is no need, no special tools.

5. FIRE FIGHTING MEASURES

Suitable substances for fire extinction: this material is compatible with all extinguishing media.

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; danger of blockage of pipelines.

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

7. HANDLING AND STORAGE

Handling: avoid contact with skin and eyes. Avoid breathing dust. Keep container closed. Promptly clean up spills.

Storage requirements: keep container closed. Store in clean metal, fiber or plastic containers.

8. EXPOSITION LIMITS AND PERSONAL PROTECTION CEAR

Critical values for protection at work:

1332-58-7 natural aluminosilicate (Kaolin)	
PEL	15 mg/m ³ total dust 5mg/m ³ respirable fraction OSHA TWA
14808-60-7 quartz (SiO ₂)	
PEL	10 mg/m ³ ÷(%quartz+2) OSHA TWA

Technical measures: good indoor ventilation.

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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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid (powder)

Sensory characteristics: gray, pink

Melting point: non available

pH: 8-9

Flammability: non available

Solubility: insoluble in water.

Specific gravity: 2,6 g/cm³

Bulk density: 0,4 – 0,7 g/cm³

Molecular formula: Al₂O₃2SiO₂

10. STABILITY AND REAKTIVITY

Stability: stable under ambient temperatures and pressures.

Substances that cause dangerous chemical reactions: Product is intended for use as a pozzolan as partial replacement of portland cement in concrete or other cement based products. Pozzolans react with Ca(OH)₂ from the hydration of hydraulic cement to produce Calcium Silicate Hydrates (CSH). CSH are highly stable minerals under normal ambient conditions. Product may react with lime or quicklime.

Hazardous decomposition products: none known.

Stabilizers: none.

Unstable Combustion Products: none.

11. DETAILS OF TOXICITY

Acute toxicity: no data found.

Chronic toxicity in experimental animals: no data found.

Mutagenicity, reproductive toxicity: no data found.

Effects on humans: none.

Carcinogenicity: quartz (crystalline silica) is an IARC Group 1 carcinogen

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.



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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.

15. REGULATIONS

Legal acts regulating the chemical and product classification, labeling, 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 labeling 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 labor minister in 2007. October 15. Order No. V-827/A1- 287, msg., 2007, no. 108-4434).

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Workers' supply of personal protective equipment regulations. (Approved by the Republic of Lithuania for social protection and labor 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).

16. OTHER DETAILS

Abbreviations:

REACH - Registration, Evaluation, Authorisation and Restrictions

ATE - The Acute Toxic

CLP - Classification, labeling, 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, are 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.