[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

1.1 Product identifier

Trade name: MICROSPHERES (fly ash)
Chemical name: Lightweight filler aluminosilicate of micro-spheres
CAS number: CAS number is unobtainable for this substance
EC number: EC number is unobtainable for this substance
REACH number: -

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: additive for paints, coating and film applications, used to reduce VOC levels, increase filler loadings, improve hardness, and add burnish, scrub and abrasion resistance to a variety of coating formulations. Manufacturing of insulation materials, cementing of boreholes, as a filler in production of building materials, in composites industry.

Uses advises against: not determined.

1.3 Details of the supplier of the safety data sheet

Manufacturer: SPHERE MINERALS s.r.o.
Address: 28. rijna 3346/91
702 00 Ostrava
Czech Republic

Telephone: + 00420 720646 065
E-mail address for a competent person responsible for sds: hansa.polymers.sl@gmail.com

1.4 Emergency telephone number

112

2.1 Classification of the substance or mixture

Substance is not classified as hazardous for human life and health and for the environment.

2.2 Label elements

Hazard pictograms and signal words: None.
Names of substances mentioned on label: None.

Hazard statements: None.
Precautionary statements: None.

2.3 Other hazards

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.
3.1 Substances
The product is an UVCB substance. Product consists mainly of silicon dioxide [CAS 7631-86-9], diiron trioxide [CAS 1309-37-1], aluminium oxide [CAS 1344-28-1], calcium oxide [CAS 1305-78-8] and magnesium dioxide [CAS 1309-48-4] in various concentrations. Components contained in the product are not classified as hazardous. Product does not contain any components with Community level exposure limit in the workplace.

4.1 Description of first aid measures
**Skin contact:** in case of exposure rinse contaminated skin using water with soap. Take off contaminated clothing and wash it before next use. Contact a doctor if disturbing symptoms occur.

**Eye contact:** protect non-irritated eye, remove contact lenses. Rinse contaminated eyes with water for at least 10-15 minutes. Avoid strong stream of water – risk of damage of the cornea. Contact an ophthalmologist if disturbing symptoms occur.

**Ingestion:** rinse mouth with water. Do not give anything by mouth to an unconscious person. Do not induce vomiting. Contact a doctor, show container or label.

**Inhalation:** remove the victim to fresh air. Keep warm and calm. Consult a doctor, if disturbing symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

**Skin contact:** mechanical irritation, redness, abrasion, itching.

**Eye contact:** mechanical irritation, redness, tearing, corneal abrasion, temporary blurred vision.

**Ingestion:** possible abdominal pains, nausea, vomiting and diarrhea.

**Dust inhalation:** possible cough, sneezing, headaches, nose and throat pain.

4.3 Indication of any immediate medical attention and special treatment needed
Physician makes a decision regarding further medical treatment after thoroughly examination of the injured.

5.1 Extinguishing media
**Suitable extinguishing media:** product is not flammable. Adjust extinguishing media according to the materials collected in the surroundings.

**Unsuitable extinguishing media:** water jet – risk of fire propagation.

5.2 Special hazards arising from the substance or mixture
During combustion harmful fumes consisting of carbon oxides, metal oxides and other harmful products of thermal decomposition and pyrolysis may be produced. Do not inhale combustion products, it may cause health risk.

5.3 Advice for firefighters
**Personal protection typical in case of fire.** Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not let extinguishing water to reach drainage system, surface water and groundwater. Collect used extinguishing media.

6.1 Personal precautions, protective equipment and emergency procedures
Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large spills, isolate the exposed area. Avoid eyes and skin contamination. Ensure that effects of the breakdown are removed only by qualified personnel. Avoid dust formation and inhalation. Ensure adequate ventilation.
6.2 Environmental precautions

Do not let the product to enter ground waters, drainage system, sewage and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect spilled product mechanically. Avoid dust formation. Place collected material in properly labelled containers for reuse (if possible) or disposal. Clean and ventilated contaminated area.

6.4 Reference to other sections


7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Avoid eyes and skin contamination. Use adequate personal protective equipment. Avoid dust formation and inhalation. Do not eat, drink or smoke during work. Wash hands carefully before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool and well ventilated place only in original containers. Keep away from food, foodstuffs, animal feed and drinking water. Keep away from incompatible materials (see subsection 10.5).

7.3 Specific end use(s)

No information about uses other than mentioned in subsection 1.2.

8.1 Control parameters

There are no occupational exposure limit values at working place for the substances present in the mixture at the Community level.


Please check any national occupational exposure limit values in your country.

8.2 Exposure controls

Observe good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Wash hands thoroughly before breaks and after work. Ensure adequate general and/or local ventilation.

Hand and body protection

Use protective gloves and clothes resistant to the product. Recommended gloves material: nitrile rubber (or other material ensuring sufficient level of protection). In case of short term contact use protective gloves with effectiveness level 2 or higher (permeation time > 30 minutes). In case of long term contact use protective gloves with effectiveness level 6 (permeation time > 480 minutes). Use protective handcreams.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Eye protection: use tightly fitting protective glasses or face protection if risk assessment indicates that it is necessary.

Respiratory protection: under normal conditions of use is not required. In emergency situation, when exposed to high concentrations of dusts appropriate respiratory protective equipment should be worn.

Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.
Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9.1 Information on basic physical and chemical properties

- **Physical state/appearance:** solid/fine powder (particle size: 0-500 microns)
- **Colour:** white to grey
- **Odour:** odourless
- **Odour threshold:** not determined
- **pH:** not applicable
- **Melting point/freezing point:** ca. 1400°C
- **Initial boiling point and boiling range:** not determined
- **Flash point:** not applicable
- **Evaporation rate:** not applicable
- **Flammability (solid, gas):** not
- **Flammable upper/lower flammability or explosive limits:** not
  - **Applicable vapour pressure:** not applicable
  - **Vapour density:** not applicable
  - **Density:** not determined
  - **Solubility(ies):** negligible solubility in water
  - **Partition coefficient: n-octanol/water:** not determined
  - **Auto-ignition temperature:** not determined
  - **Decomposition temperature:** not determined
  - **Explosive properties:** not display
  - **Oxidising properties:** not display
  - **Viscosity:** not applicable

9.2 Other information

- **Bulk density:** 0.3-0.6 g/cm³

10.1 Reactivity

Product is feebly reactive. It does not undergo dangerous polymerization. See also subsections 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of handling and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Protect from sources of fire and heat.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Not known.
11.1 Information on toxicological effects

**Acute toxicity**
Based on available data, the classification criteria are not met. **Skin corrosion/irritation**
Based on available data, the classification criteria are not met. **Serious eye damage/irritation**
Based on available data, the classification criteria are not met. **Respiratory or skin sensitization**
Based on available data, the classification criteria are not met. **Germ cell mutagenicity**
Based on available data, the classification criteria are not met. **Carcinogenicity**
Based on available data, the classification criteria are not met. **Reproductive toxicity**
Based on available data, the classification criteria are not met. **STOT-single exposure**
May cause drowsiness or dizziness. **STOT-repeated exposure**
Based on available data, the classification criteria are not met. **Aspiration hazard**
Based on available data, the classification criteria are not met.

12.1 Toxicity
Product is not classified as hazardous for the environment.

12.2 Persistence and degradability
**No data for the substance.**

12.3 Bioaccumulative potential
**No bioaccumulative potential.**

12.4 Mobility in soil
Product is not mobile in soil.

12.5 Results of PBT and vPvB assessment
**Not applicable.**

12.6 Other adverse effects
Product is not classified as hazardous to the ozone layer.

13.1 Waste treatment methods
**Disposal methods for the substance:** do not deposit with household waste. Do not let product to enter sewage system. Disposal in accordance with the local legislation. Waste code should be assigned in place of formation. **Disposal methods for used packing:** package should be passed to a certified company. Do not mix with other wastes. Waste code should be assigned in place of formation.
14.1 UN Number
   Not applicable. Product is not classified as dangerous during transportation.
14.2 UN proper shipping name
   Not applicable.
14.3 Transport hazard class(es)
   Not applicable.
14.4 Packing group
   Not applicable.
14.5 Environmental hazards
   Not applicable.
14.6 Special precautions for user
   Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
   Not applicable.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical safety assessment
   There is no information about chemical safety assessment for this substance.

Abbreviations and acronyms

PBT     Persistent, Bioaccumulative and Toxic substance
vPvB    very Persistent, very Bioaccumulative

substance Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Additional information

Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP).
Composed by: Pawel Kofinski (on the basis of producer's data) Safety
Data Sheet made by: Hansa Polymers lab.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.