Product Safety Information (PSI)

PyroBubbles®

Replaces the safety data sheet. No hazardous substance according to CLP regulation, see chapter 2

Please note the general information in chapter 16 „other data“

1. Product Details / Manufacturer

1.1 Product Identifier

<table>
<thead>
<tr>
<th>Trade name</th>
<th>PyroBubbles®</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACH registration number</td>
<td>No obligation to register</td>
</tr>
</tbody>
</table>

1.2 Relevant Identifiable uses of the Substance or Mixture and uses we advise against

<table>
<thead>
<tr>
<th>Application of the substance</th>
<th>Functional lightweight filler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not recommended applications</td>
<td>None</td>
</tr>
</tbody>
</table>

1.3 Details on the Distributor, who provides the Product Safety Information

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Genius Technologie GmbH, Am Theresenhof 2 15834 Rangsdorf, Deutschland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telefon:</td>
<td>+49 3375 24 609 60</td>
</tr>
<tr>
<td>Telefax:</td>
<td>+49 3375 24 609 66</td>
</tr>
<tr>
<td>E-Mail (responsible person)</td>
<td><a href="mailto:info@genius-group.de">info@genius-group.de</a></td>
</tr>
</tbody>
</table>

1.4 Emergency Information

<table>
<thead>
<tr>
<th>Emergency number supplier</th>
<th>OSTHOFF OMEGA PRODUCTION &amp; TECHNOLOGIE GmbH Am Theresenhof 2, D-15834 Rangsdorf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telefon:</td>
<td>+49 3375 24 609 70</td>
</tr>
<tr>
<td>Cell phone</td>
<td>+49 172 38 23 171</td>
</tr>
</tbody>
</table>
2. Possible Dangers

2.1 Classification of the Substance or Mixture

Classification according to regulation (EG) Nr. 1272/2008
Information concerning particular hazards for human and environment
Not classified according to CLP-regulation
In solid form, this material is not hazardous. Dust generated from grinding etc. may cause irritation. Please note the information of this Material Safety Data Sheet.

2.2 Labelling Elements

Classification according to regulation (EG) Nr. 1272/2008
Hazard pictograms
Signal word
Hazard statements
Hazard classification
No labelling required
Void
Void
Void

2.3 Other Dangers

Other dangers
Continued contact with respirable dust in high concentration of this product can affect the lung function. This product is not respirable when being supplied.

3. Composition / Specification of the Elements

3.1 Chemical Characterization

Description
Dangerous substances
Multi cellular glass hollow spheres
None

4. First Aid Measures

4.1 Description of First Aid Measures

General Information
After inhalation
After skin contact
After eye contact
After swallowing
If symptoms persist or in case of doubt, seek medical advice
Supply fresh air, consult doctor in case of complaints
Wash with water and soap. Remove contaminated clothes and shoes.
Rinse the eyes with open eyelids for 10 - 15 minutes with water.
Consult doctor in case of persistent complaints
Rinse mouth with water. Spit all liquid out again. Seek medical treatment.

4.2 Medical Treatment or special Treatment

Most important symptoms and effects, both acute and delayed
Medical treatment or special Treatment
After swallowing: Irritant effect on the respiratory tract
Irritation of mucous membranes
Symptomatic treatment
5. Fire Fighting Measures

5.1 Extinguishing Agent

Suitable extinguishing agents: The product is not combustible and does not support combustion.

For safety reasons unsuitable extinguishing agents:

- High volume water jet

5.2 Special Dangers originating from the Product or Mixtures

Special dangers: None

5.3 Instructions for Fire Extinguishing

Additional information: Self-contained breathing apparatus

6. Measures in Case of unintentional Emission

6.1 Precautions, Protection Equipment and applicable Methods in Case of Emergencies

Person-related safety precautions: Avoid contact with eyes and skin. Avoid formation of dust. Ensure adequate ventilation. Please notice chapter 8.

6.2 Measures for Environmental Protection

Measures for environmental protection: No special measures required.

6.3 Measures for Cleaning/Collecting

Bulk material: Recover and dispose in suitable containers. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Make sure to recycle or dispose of in suitable receptacles. Dispose contaminated material as waste according to item 13.

6.4 References to other Chapters

- Information on safe handling: See section 7
- Information on personal protection equipment: See section 8
- Disposal: See chapter 13

7. Handling and Storage

7.1 Information for safe Handling

Information for safe handling: Avoid formation of dust, and must be regularly removed. Wear suitable protective gear (for example goggles, gloves…). If dust concentration exceeds the regulated limits a suitable, approved breathing apparatus must be used. Prolonged exposure to the skin should be avoided. Wash hands after handling.

Information about protection against explosions and fires: No special measures required. The product is non-combustible, non-oxidizing and not explosive.

7.2 Requirements for safe Storage, considering Incompatibilities

Requirements to be met by storerooms and receptacles: Not required

Information about storage in one common storage facility: Class 13 non-combustible solid (VCI)

7.3 Specific Applications

Specific applications: Avoid milling and other processes which may produce respirable dust.
8. Limitation and monitoring of Exposition / Personal Protective Gear

Additional information about design of technical systems
Mechanical ventilation/ exhaustion is recommended

8.1 Monitoring of significant Parameters
Components with threshold values that require monitoring at the workplace
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

Additional information
The general limits of 3 mg/m³ for alveolar dust and 10 mg/m³ for inhalable dust fraction is to be heeded. For details see TRGS 900

8.2 Limitation and monitoring of Exposition
Eyes- / face protection
In case of dust formation, the use of protective googles is advised

Skin- / hand protection
The use of protective gloves is advised while handling the material

Respiratory protection
In case of unintentional release of the substance, exceeding the occupational exposure limit value, use short term filter device. particle filter P2

General protective- and hygienic precautions
Do not inhale dust/ smoke/ mist. Use skin protection cream for skin protection. Do not eat, drink or smoke while working. Contaminated clothing should be cleaned with a vacuum cleaner, do not brush or blow the clothing. Wash hands bevor breaks and after work

9. Physical and chemical Properties

9.1 Information about elementary Physical and Chemical Properties

Physical form
Solid

Shape
Spherical

Color
White

Odor
Odorless

Grain gross density (kg/m³)
380-520

Bulk density (kg/m³)
235 ± 10%

Solubility in / Miscibility with Water
Not miscible or difficult to mix

9.2 Additional Information

Additional information
Other parameters listed in appendix 2 REACH regulation are not applicable
10. Stability and Reactivity

10.1 Reactivity
Reactivity
No dangers regarding to reactivity

10.2 Chemical Stability
Chemical stability
Stable under normal conditions

10.3 Possibility of dangerous Reactions
Dangerous reactions
No dangerous reactions known

10.4 Circumstances to Avoid
Circumstances to avoid
No special requirements

10.5 Incompatible Materials
Incompatible materials
No incompatible materials known

10.6 Dangerous Products of Decomposition
Dangerous products of decomposition
No dangerous products of decomposition are known

11. Potential Health Risks

11.1 Potential Health Risks
Potential health risks
Does not meet the requirements for classification “dangerous” according to regulation (EG) Nr. 1272/2008 (CLP). See section 7, 8 and 16

11.2 Acute Toxicity
Acute toxicity
Based on available data, the classification criteria are not met

11.3 Irritation: Skin, Eye
Irritation
No irritating effect; however, long or repeated mechanical contact may lead to redness an slight irritation
Serious eye damage/irritation
Eye irritation is possible after mechanical influence (dust)

11.4 Corrosion
Corrosion
No corroding effect

11.5 Sensitization
Sensitization
Based on available data, the classification criteria are not met

11.6 Toxicity repeated application
Toxicity
Non-toxic

11.7 Germ cell Mutagenicity
Mutagenicity
Based on available data, the classification criteria are not met

11.8 Carcinogenicity
Carcinogenicity
Based on available data, the classification criteria are not met

11.9 Reproductive Toxicity
Reproductive Toxicity
Based on available data, the classification criteria are not met
12. Environment related Information

12.1 Toxicity
Toxicity
Material is not classified as “dangerous”. No aquatic toxicity, not toxic for treatment plants

12.2 Persistence and Degradability
Degradability
Not applicable. The material is inorganic. The material is not photosensitive, no chemical or biological degradation is to be expected

12.3 Bioaccumulation Potential
Bioaccumulation
Not applicable. The material is inorganic. No significant bioaccumulation is to be expected

12.4 Mobility in Soil
Mobility in soil
No data available
General Notes
According to appendix 4 of VwVwS dated 17.05.1999(German regulation)

12.5 Results of the PBT- and vPvB-Evaluation
Results of the evaluation
No PBT- or vPvB-properties

12.6 Other Harmful Effects
Additional information
No other harmful effects are known. The material is not deemed as harmful to environment, according to CLP

13. Disposal Considerations

13.1 Procedure of waste Treatment
Disposal Considerations
Must be recycled or disposed of according to the regulations. Waste hast to be classified according to the European Waste Catalogue based on the identification of the waste generating source. Disposal according to instructions of local authorities.
European waste catalogue
06 00 00 WASTE FROM INORGANIC CHEMICAL PROCESSES
06 13 00 wastes from inorganic chemical processes not otherwise specified
06 13 99 wastes not otherwise specified
Recommendation
Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Empty contained packaging thoroughly. They can be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

14. Information regarding Transport

14.1 Information regarding Transport
UN
Void
Land transport ADR/RID ADR/RID-GGVSEB
Non-hazardous goods according to the regulation.
Maritime transport IMDG/GGVsee
Non-hazardous goods according to the regulation
Air transport ICAO/IATA
Non-hazardous goods according to the regulation
15. **Legal Regulations**

15.1 **Regulations regarding Safety, physical Health and environment Protection / Specific Regulations for the Substance or Mixture**

- **Additional regulations**: Specific national regulations must be fulfilled

15.2 **Chemical safety Assessment**

- **Safety assessment**: This PSI was made in compliance with (EG) Nr. 1907/2006 (REACH) and (EG) Nr. 1272/2008 (CLP)

15.3 **Water hazard Class**

- **Water hazard**: WGK 1 (mildly water polluting) – self classification – according annex 3 VwVws

16. **Other Data**

16.1 **General Information**

- **Reasons for amendments**: General revision

**Department issuing SDS:**
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Member of Genius Group
Am Theresenhof 2
D-15834 Rangsdorf
Phone: +49 3375 24 609 70
Fax: +49 3375 24 609 69

According to chapter 1.5.2 of the globally Harmonized System of Classification, Labelling and Packaging of Chemicals (GHS), article 58 (2)(a) and article 59(2)(b) of regulation (EG) Nr. 1272/2008 (CLP), which complements the article 31(1) REACH regulation, safety data sheets for substances and/or mixtures are only mandatory if the criteria concerning physical, health related and/or ecologic dangers are met.

The product does not meet these requirements, a safety data sheet is not issued. The safety data sheet is replaced with the PSI to inform about important data concerning physical, health and/or ecologic dangers.

The article 31(7) of the REACH regulation demands that relevant exposure scenarios of the chemical safety report (CSR) are listed in the appendix of the safety data sheet. According to REACH regulation appendix I, appendix 0, sub-appendix 0.6. Nr. 4 and 5 only substances and/or mixtures which are classified as dangerous have to be listed with the necessary exposure scenarios.

The product is not classified as dangerous, no exposure scenarios are listed.

**Sources**: Information provided by manufacturer

16.2 **Legal Notice**

All information in this PSI relate to the requirements necessary for safe handling of the substance and complies with the best of our knowledge with our insights at the time of its preparation. The Fire-Shield I AG gives no guarantee, warranty or declaration concerning the accuracy, reliability or completeness. It is therefore the responsibility of the customer to check the information in terms of adequacy and completeness for his particular purposes.