

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

Trade name	PyroBubbles®
REACH registration number	No obligation to register

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

Application of the substance	Functional lightweight filler
Not recommended applications	None

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

Supplier	Genius Technologie GmbH, Am Theresenhof 2 15834 Rangsdorf, Deutschland Telefon: +49 3375 24 609 60 Telefax: +49 3375 24 609 66
E-Mail (responsible person)	info@genius-group.de

1.4 Emergency Information

Emergency number supplier	OSTHOFF OMEGA PRODUCTION & TECHNOLOGIE GmbH Am Theresenhof 2, D-15834 Rangsdorf +49 3375 24 609 70
Cell phone	+49 172 38 23 171

2. Possible Dangers

2.1 Classification of the Substance or Mixture

Classification according to regulation (EG) Nr. 1272/2008	Not classified according to CLP-regulation
Information concerning particular hazards for human and environment	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	No labelling required
Hazard pictograms	Void
Signal word	Void
Hazard statements	Void
Hazard classification	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.
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3. Composition / Specification of the Elements

3.1 Chemical Characterization

Description	Multi cellular glass hollow spheres
Dangerous substances	None

4. First Aid Measures

4.1 Description of First Aid Measures

General Information	If symptoms persist or in case of doubt, seek medical advice
After inhalation	Supply fresh air, consult doctor in case of complaints
After skin contact	Wash with water and soap. Remove contaminated clothes and shoes.
After eye contact	Rinse the eyes with open eyelids for 10 - 15 minutes with water. Consult doctor in case of persistent complaints
After swallowing	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	After swallowing: Irritant effect on the respiratory tract Irritation of mucous membranes
Medical treatment or special Treatment	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
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5.3 Instructions for Fire Extinguishing

Additional information	Self-contained breathing apparatus
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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
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6.2 Measures for Environmental Protection

Measures for environmental protection	No special measures required
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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). Ake sure to recycle or dispose of in suitable receptacles. Dispose contaminated material as waste according to item 13
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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 Information about storage in one common storage facility	Not required
Storage	Class 13 non-combustible solid (VCI)

7.3 Specific Applications

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

Additional information about design of technical systems

Mechanical ventilation/ exhaustio 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 goggles 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 and 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
General Notes No data available
Generally not hazardous for water
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 has 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

Replaces version dated: 15.04.2016

Department issuing SDS:

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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.