

## 1 Identification

### Product identifier

Trade name: 617Z8 - Microballoon, White

### Recommended use and restrictions on use

General use: Article: functional lightweightfiller for lamination resin.  
Reserved for industrial and professional use.

### Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal code, city: Burlington, ON L7L 5N5, CA  
Canada

WWW: [www.ottobock.ca](http://www.ottobock.ca)

Email: [info.canada@ottobock.com](mailto:info.canada@ottobock.com)

Telephone: (800) 665-3327

Telefax: (800) 463-3659

Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

Additional information:

Corporate headquarters:  
Ottobock SE & Co. KGaA  
Max-Näder-Straße 15  
Duderstadt  
Germany

### Emergency telephone number

COLLECT, Telephone: (613) 996-6666

## 2 Hazard identification

### Classification

Article not subject to hazard labelling or classification.

### Information elements

not applicable

### Other hazards known to the supplier with respect to the product

Mechanical effects, e.g. high pressure, can produce splinters and dust. For risks which have to be observed thereby, see section 7: Handling, section 8: Exposure controls / personal protection and section 11: Toxicology.

### 3 Composition/Information on ingredients

#### Mixture

Chemical name: borosilicate glass-micro hollow spheres, not respirable  
Contains embedded in the product, dependent of the type:  
Silicate (Sodium), Borate (Sodium) and <1% trimethoxy(methyl)silane or  
Polydimethylsiloxane

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 7631-86-9	Silicon dioxide	1 - 10 %	not classified

The actual concentration or concentration range is withheld as a trade secret.

### 4 First-aid measures

#### Description of necessary first-aid measures

General information: Mechanical effects, e.g. high pressure, can produce splinters and dust.  
Take off contaminated clothing and wash it before reuse.

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

In case of swallowing: Rinse mouth and drink large quantities of water. Seek medical attention.

In case of skin contact: Remove residues with soap and water. Avoid rubbing.  
In the event of persistent symptoms seek medical treatment.

In case of eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

#### Most important symptoms and effects, whether acute or delayed

In case of inhalation: Product dust is irritating the upper respiratory tract.  
Dusts: Lung damage is possible in a chronic situation.  
After contact with skin: Mild irritant (OECD 404).  
After eye contact: Mild irritant

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

### 5 Fire-fighting measures

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media:  
Co-ordinate fire-fighting measures to the fire surroundings.  
water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide

Unsuitable extinguishing media:  
Full water jet.

#### Specific hazards arising from the product

No data available

### Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus.

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Provide adequate ventilation. Wear appropriate protective equipment. Avoid breathing dust.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. If necessary: Use approved industrial vacuum cleaner for removal. Dispose of waste according to applicable legislation.

## 7 Handling and storage

### Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. Avoid contact with skin, eyes, and clothing. Store free of pressure. When using do not eat, drink or smoke.

Wear appropriate protective equipment. Avoid breathing dust. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Take standard precautions to prevent fire.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and dry. Do not drop, drag or bang the container.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

## 8 Exposure controls/Personal protection

### Control parameters

Occupational exposure limit values:

Type	Limit value
Canada: Alberta, OEL 8 hour	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: Alberta, OEL 8 hour	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: BC, OEL TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: BC, OEL TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: Québec, VEMP	10 mg/m <sup>3</sup> (total dust)
Canada: Québec, VEMP	3 mg/m <sup>3</sup> (total dust, respirable fraction)

### Appropriate engineering controls

Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Dust mask according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection: Protective gloves  
 OSHA Standard - 29 CFR: 1910.138  
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Body protection: Recommended: Wear suitable protective clothing.

General hygiene considerations:  
 Avoid contact with skin, eyes, and clothing. Avoid breathing dust. Take off contaminated clothing and wash it before reuse. When using do not eat or drink.  
 Wash hands before breaks and after work. Have eye wash bottle or eye rinse ready at work place.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
	Form: Powder
Colour:	white
Odour:	odourless
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available

Lower and upper explosion limit or lower and upper flammability limit:

No data available

Flash point/flash point range:

Not applicable

Evaporation rate:

No data available

Auto-ignition temperature:

Not self-igniting

Decomposition temperature:

No data available

pH:

Not applicable

Water solubility:

soluble

Partition coefficient — n-octanol/water:

No data available

Vapour pressure:

No data available

Density and/or relative density

No data available

Vapour density:

No data available

Particle characteristics:

No data available

### Additional information

Explosive properties:

Product is not explosive.

## 10 Stability and reactivity

Reactivity:

Refer to subsection "Possibility of hazardous reactions".

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

No dangerous reactions are known.

Conditions to avoid:

Excessive heating. Avoid generation of dust. Protect from moisture contamination.

Incompatible materials:

Strong acids

Hazardous decomposition products:

No known hazardous decomposition products.

## 11 Toxicological information

### Information on the likely routes of exposure

No data available

### Health hazard information

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Not known to cause sensitization.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information:

Splinters and dust: Skin irritation, mucous membrane irritation, eye irritations.

Information about silicon dioxide:

LD50 Rat, oral: > {de 5,0E3} mg/kg (OECD 401)

### Symptoms

In case of inhalation: Product dust is irritating the upper respiratory tract.

Dusts: Lung damage is possible in a chronic situation.

After contact with skin: Mild irritant (OECD 404).

After eye contact: Mild irritant

## 12 Ecological information

### Ecotoxicity

Aquatic toxicity:

Information about silicon dioxide:

Fish toxicity:

LC0 fish: > 10,000 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 10,000 mg/L/24h (OECD 202)

### Persistence and degradability

Further details:

The methods for determining the biological degradability are not applicable to inorganic substances.

### Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

### Mobility in soil

No data available

### Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

## 13 Disposal considerations

### Waste treatment methods

#### Product

Recommendation: Dispose of waste according to applicable legislation.

#### Package

Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.

## 14 Transport information

### UN number

TDG, IMDG, IATA-DGR: not applicable

### UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

### Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

### Packing group

TDG, IMDG, IATA-DGR: not applicable

### Environmental hazards

Marine pollutant: no

### Special precautions in connection with transport or conveyance either within or outside the premises

#### Canada: Transportation of Dangerous Goods (TDG)

Shipping name: Not restricted

#### Sea transport (IMDG)

Proper shipping name: Not restricted

Marine pollutant: no

#### Air transport (IATA)

Proper shipping name: Not restricted

### Further information

No dangerous good in sense of these transport regulations.

## 15 Regulatory information

### National regulations - Canada

Silicon dioxide: DSL: listed

### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Revision date: 17/12/2025

Date of first version: 18/3/2009

Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022

#### Abbreviations and acronyms:

AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
DSL: Domestic Substances List  
EC: European Community  
EC50: Effective Concentration 50%  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC0: Lethal concentration 0%  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
TDG: Transportation of Dangerous Goods Regulation in Canada  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
TSCA: Toxic Substance Control Act  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.