

1. Product and company 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

E-mail: 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 phone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: solid
Form: Powder

Color: white

Odor: odorless

Classification: Article not subject to hazard labeling or classification.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS in Canada.

Hazards not otherwise classified

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.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: 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

Relevant ingredients:

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

4. 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.

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

After 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.

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

Most important symptoms and effects, both acute and 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

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

Not applicable

Auto-ignition temperature: Not self-igniting

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

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 vapors. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6. Accidental release measures

Personal precautions:	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 for clean-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

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.

Storage

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

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
	617Z8 - Microballoon, White	Canada: OEL 8 hour	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: OEL 8 hour	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: OEL TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		Canada: OEL TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		Canada: VEMP	10 mg/m ³ (total dust)
		Canada: VEMP	3 mg/m ³ (total dust, respirable fraction)
		USA: ACGIH: TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
		USA: ACGIH: TWA	3 mg/m ³ (Dust limit value, respirable fraction)
		USA: OSHA: TWA	15 mg/m ³ (Dust limit value, total dust)
		USA: OSHA: TWA	5 mg/m ³ (Dust limit value, respirable fraction)
7631-86-9	Silicon dioxide	USA: IDLH: TWA	3,000 mg/m ³
		USA: NIOSH: TWA	6 mg/m ³
		USA: OSHA: TWA	20 mppcf
		USA: OSHA: TWA	80 mg/m ³ (total dust)

Engineering controls

Provide adequate ventilation.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

Skin protection: Recommended: Wear suitable protective clothing.
Protective gloves
OSHA Standard - 29 CFR: 1910.138
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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.

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

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: Powder Color: white
Odor:	odorless
Odor threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not self-igniting
Thermal decomposition:	No data available
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.
Thermal decomposition:	No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

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)

Mobility in soil

No data available

Persistence and degradability

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

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

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

13. Disposal considerations

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

ADR/RID, IMDG, IATA-DGR:

not applicable

UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

Environmental hazards

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name: Not restricted

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

National regulations - U.S. Federal Regulations

This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

National regulations - U.S. State Regulations

No data available

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 0 (Minimal)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 0 (Minimal)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
	X

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 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
 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
 RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
 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
 WHMIS: Workplace Hazardous Materials Information System

Reason of change: Changes in section 8: Occupational exposure limit values

Date of first version: 18/3/2009

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.