

1. Product and company identification

Product identifier

Trade name: G001 - Glass fibers textile material

This safety data sheet pertains to the following products:

Article No. 616G3: Fiberglass Stockinette

Article No. 616G4: Fiberglass Mat (Biegelow Mat)

Article No. 616G5: Fiberglass Mat

Article No. 616G13: Woven Fiberglass Stockinette

Article No. 616G18: Fiberglass Cloth

Article No. 699B1: Fiberglass Roving

Article No. 699B2: Fiberglass Webbing

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

General use: Article: glass fibers-textile material for orthopedic procedures.

Reserved for industrial and professional use.

Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care

Street/POB-No.: 3820 W. Great Lakes Drive

Postal Code, city: Salt Lake City, UT 84120

USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,

Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),

Email: USRegulatory@ottobock.com

Additional information: Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency phone number

CHEMTREC, Telephone: +1 (800) 424-9300

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

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

2. Hazards identification

Emergency overview

Appearance: Form: solid

Color: white up to yellowish up to light-gray

Odor: odorless

Classification: Article not subject to hazard labelling or classification.

Regulatory status

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

Hazards not otherwise classified

Processing, e.g. by cutting, sawing or grinding, can produce particles and dust. For risks which have to be observed thereby, see section 7: Handling, section 8: Exposure controls / personal protection and section 11: Toxicology.

Glass fibres, Index-Nr. 650-016-00-2: Xn, R38 - 40, S2 - 36/37

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Glass fibers-textile material >95% (diameter fibers > 3 µm)

Coating agent:

Article No. 616G3: polymer, stable 1,5 %

Article No. 616G18: chromium methacrylic chloride 0,7 %

Article No. 699B2: Finish FI122 (Organic materials) approx. 4 %

Additional information: Article: Product does not require special labeling according to US / Canadian legislation.

4. First aid measures

General information: For mechanical processing: dust formation.

In case of inhalation: Provide fresh air. Rinse mouth thoroughly with water.
Seek medical treatment in case of troubles.

Following skin contact: Remove residues with soap and water.
Avoid rubbing. Fibers may penetrate deeper into the skin by 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.
In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth thoroughly with water. Give affected person large quantities of water, better milk.
Seek medical attention. Subsequent observance for Obstructing of the bowel/intestines.

Most important symptoms/effects, acute and delayed

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Water spray jet, foam, dry chemical powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

Specific hazards arising from the chemical

In case of fire may be liberated: carbon monoxide and carbon dioxide of coating agent.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Provide adequate ventilation.

Avoid generation of dust. Wear suitable protective clothing.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

7. Handling and storage

Handling

Advices on safe handling: Provide adequate ventilation.

For mechanical processing: Avoid generation of dust.

Wear suitable protective clothing. The use of local exhaust ventilation is recommended.

Specific use(s)

Article: glass fibers-textile material for orthopedic procedures.

Storage

Requirements for storerooms and containers:

Protect from moisture contamination.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
65997-17-3	G001 - Glass fibers textile material	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)
	Glass fibers	USA: ACGIH: TWA	1 fibers/cm ³ (Synthetic vitreous fibres, Continuous filament glass fibres)
		USA: ACGIH: TWA	5 mg/m ³ (Synthetic vitreous fibres, Continuous filament glass fibres, inhalable fraction)
		USA: NIOSH: TWA	3 fibers/cm ³
		USA: NIOSH: TWA	5 mg/m ³ (glass wool, fiberglass, glass fibers)

Engineering controls

Provide adequate ventilation.

For mechanical processing: The use of local exhaust ventilation is recommended.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

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

Respiratory protection: For mechanical processing:
Dust mask according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2

General hygiene considerations:
Avoid generation of dust.
Wash hands before breaks and after work. Avoid rubbing.
Fibers may penetrate deeper into the skin by rubbing.
Remove fibers and/or dust from working clothes using a vacuum cleaner
Separate storage of work clothes.
Wash clothing before further use.
Glass fibers-dust:
Avoid contact with skin and eyes.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: solid Color: white up to yellowish up to light-gray
Odor:	odorless
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
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:	approx. 2.6 g/cm ³
Water solubility:	Glass fibers: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	Coating agent: > 200°C
Additional information:	Softening point: approx. 850 °C

10. Stability and reactivity

Reactivity:	refer to section 10.3
Chemical stability:	Glass fibers: not combustible. Coating agent: combustible. Product is stable under normal storage conditions.
Possibility of hazardous reactions:	none
Conditions to avoid:	No data available
Incompatible materials:	None known
Hazardous decomposition products:	In case of fire may be liberated: carbon monoxide and carbon dioxide of coating agent.
Thermal decomposition:	Coating agent: > 200°C

11. Toxicological information

Toxicological tests

Toxicological effects:	<p>Acute toxicity (oral): Lack of data.</p> <p>Acute toxicity (dermal): Lack of data.</p> <p>Acute toxicity (inhalative): Lack of data.</p> <p>Skin corrosion/irritation: Lack of data.</p> <p>Serious eye damage/irritation: Lack of data.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Lack of data.</p> <p>Germ cell mutagenicity/Genotoxicity: Lack of data.</p> <p>Carcinogenicity: Lack of data.</p> <p>Reproductive toxicity: Lack of data.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Lack of data.</p> <p>Specific target organ toxicity (repeated exposure): Lack of data.</p> <p>Aspiration hazard: Lack of data.</p>
Other information:	<p>Fibers and dust: Causes temporarily: Skin irritation, mucous membrane irritation, eye irritations.</p> <p>Coating agent: In case of prolonged exposition, sensitizing by skin contact is possible.</p> <p>For mechanical processing:</p> <p>Possible in traces: formation of WHO-fibers</p> <p>Definition WHO-fibers: length (L) > 5 µm and diameter (D) < 3 µm and L:D > 3:1</p> <p>classification WHO-fibers: Causes concern for man owing to possible carcinogenic effects. Should be regarded as if they are carcinogenic to man.</p>

12. Ecological information

Ecotoxicity

Effects in sewage plants: Mechanical separation in a suitable sewage plant is possible.

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: Glass fibers: Product is not biodegradable.

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information: Discharge into the environment must be avoided.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.
Product can be disposed of at an appropriate waste site, for example.

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

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 - 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

National regulations - Great Britain

Hazchem-Code:

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Chemical rules 1998 (06.01.1999)

16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

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
 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
 MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
 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
 TRGS: Technical Rules for Hazardous Substances
 TSCA: Toxic Substance Control Act
 vPvB: Very persistent and very bioaccumulative

Literature:

IARC Vol 81, 23.08.2002 Man-made Vitreous Fibres

Reason of change:

Changes in section 8: Occupational exposure limit values

Date of first version:

7/11/2007

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.