

1. Product and company identification

Product identifier

Trade name: GN001 - glass / Nylon textile material

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

General use: Reinforcement fabric 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

Dept. responsible for information:

Quality Department,
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),
Email: USRegulatory@ottobock.com

Additional information: This safety data sheet pertains to the following products:

Article No. 623T 9: Nyglass Stockinette, White
Article No. 623T11: Nyglass Frizz Stockinette, White
Corporate headquarters:
Ottobock SE & Co. KGaA
Max-Näder-Straße 15
Duderstadt
Germany

Emergency phone number

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

2. Hazards identification

Emergency overview

Appearance: Form: solid
Color: white

Odor: odorless

Classification: This material is classified as not hazardous.

Regulatory status

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

Hazards not otherwise classified

Fibers and dust: Causes temporarily: Skin irritation, mucous membrane irritation, eye irritations.

Coating agent: In case of prolonged exposition, sensitizing by skin contact is possible.

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.

see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Glass / Nylon fibers-textile material (diameter fibers > 3 µm): > 98,5%
coating agent (polymer, stable): < 1,5%

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

Fibers and dust: Causes temporarily: Skin irritation, mucous membrane irritation, eye irritations.

Coating agent: In case of prolonged exposition, sensitizing by skin contact is possible.

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: nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

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 appropriate protective equipment.
 Do not breathe dust. Avoid contact with skin and eyes.

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. Wear appropriate protective equipment.
 Do not breathe dust. Avoid contact with skin and eyes.
 For mechanical processing: Avoid generation of dust.
 The use of local exhaust ventilation is recommended.

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 |
|------------|--|-----------------|--------------------------|
| | GN001 - glass / Nylon textile material | USA: ACGIH: TWA | 10 mg/m ³ |
| | | USA: ACGIH: TWA | 3 mg/m ³ |
| | | USA: OSHA: TWA | 15 mg/m ³ |
| | | USA: OSHA: TWA | 5 mg/m ³ |
| 65997-17-3 | Glass fibers | USA: ACGIH: TWA | 1 fibers/cm ³ |
| | | USA: ACGIH: TWA | 5 mg/m ³ |
| | | USA: NIOSH: TWA | 3 fibers/cm ³ |
| | | USA: NIOSH: TWA | 5 mg/m ³ |

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.
 OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003

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

Respiratory protection: For mechanical processing:
 Particulates filter P1 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
 Half-mask with filter according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2 - filter FP1, FFP1, FP2.

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
 Glass fibers-dust:
 Avoid contact with skin and eyes.
 Do not breathe dust.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|--|
| Appearance: | Form: solid Color: white |
| Odor: | odorless |
| Odor threshold: | No data available |
| pH value: | No data available |
| Melting point/freezing point: | coating agent: approx. 392 °F |
| 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: | No data available |
| Water solubility: | 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 glass fibers: approx. 850 °C |

10. Stability and reactivity

Reactivity: refer to section 10.3

Chemical stability: Glass fibers: not combustible. Nylon / coating agent: combustible.
 Product is stable under normal storage conditions.

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Possibility of hazardous reactions

none

Conditions to avoid: Protect from moisture contamination.

Incompatible materials: No data available

Hazardous decomposition products:

In case of fire may be liberated: nitrogen oxides (NO_x), carbon monoxide and carbon dioxide.

Thermal decomposition: Coating agent: > 200°C

11. Toxicological information**Toxicological tests**

Toxicological effects:

- 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: Lack of data.
- 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.

Symptoms

Fibers and dust: Causes temporarily: Skin irritation, mucous membrane irritation, eye irritations.

Coating agent: In case of prolonged exposition, sensitizing by skin contact is possible.

General remarks

For mechanical processing:

Possible in traces: formation of WHO-fibers

Definition WHO-fibers: length (L) > 5 µm and diameter (D) < 3 µm and L:D > 3:1

classification WHO-fibers: Causes concern for man owing to possible carcinogenic effects. Should be regarded as if they are carcinogenic to man.

12. Ecological information**Ecotoxicity**

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

Further details: No data available

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Mobility in soil

No data available

Persistence and degradability

Further details: Glass fibers: Product is not biodegradable.
Nylon: Product is not biodegradable.

Additional ecological information

General information: Discharge into the environment must be avoided.

13. Disposal considerations**Product**

Recommendation: Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

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

14. Transport information**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**

TSCA: CAS 65997-17-3 listed - UVCB

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Hazard rating systems:



NFPA Hazard Rating:
Health: 1 (Slight)
Fire: 1 (Slight)
Reactivity: 0 (Minimal)
HMIS Version III Rating:
Health: 1 (Slight)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: B

| | |
|-----------------|---|
| HEALTH | 1 |
| FLAMMABILITY | 1 |
| PHYSICAL HAZARD | 0 |
| B | |

Literature: IARC Vol 81, 23.08.2002 Man-made Vitreous Fibres

Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 8/22/2007

Department issuing data sheet

Contact person: see section 1: Dept. 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.