

1. Product and company identification

Product identifier

Trade name: 623TX - Polyamide Mesh Products

Recommended use and restrictions on use

General use: Article for orthopedic procedures.
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:

This safety data sheet pertains to the following products:

Article No. 623T3: Perlon Stockinette, White

Article No. 623T5: Perlon Elastic Stockinette, White

Article No. 623T8: Nylon Frizz Stockinette, Skin Color

Article No. 623T10: Nylon Frizz Stockinette, White

Article No. 623T13: Elastic Stockinette, White (Filtering Bag)

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: Form: solid, fibers

Color: white or skin-colored (refer to section 1)

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

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 characterisation: polyamide-fabric, contains coating agent <= 3%

Additional information: Article No. 623T3: 100% polymer of Caprolactam (PA 6)
Article No. 623T5: 50% Caprolactam-polymer (PA 6) and 50% Adipic acid/Hexamethyldiamine-polymer (PA 6.6)
Article No. 623T8: 100% polymer of Adipic acid/Hexamethyldiamine (PA 6.6)
Article No. 623T10: 100% polymer of Adipic acid/Hexamethyldiamine (PA 6.6)
Article No. 623T13: 100% polymer of Adipic acid/Hexamethyldiamine (PA 6.6)

4. First aid measures

General information: For mechanical processing: dust formation.
In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.
Following skin contact: Dust: Remove residues with soap and water.
Burns caused by molten material must be treated clinically.
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: Ingestion is not considered a possible route of exposure.

Most important symptoms and effects, both acute and delayed

In case of eye contact (Article): mild irritant
In case of eye contact / in case of inhalation (dust): May cause irritations.

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, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Alcohol resistant foam, Full water jet

Specific hazards arising from the chemical

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

Special protective equipment and precautions for fire-fighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

6. Accidental release measures

Personal precautions:	Avoid generation of dust. Provide adequate ventilation. In the case of the formation of dust: Wear 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: with water and soap.

7. Handling and storage

Handling

Advices on safe handling:	Handle in accordance with good industrial hygiene and safety practice. For mechanical processing: Avoid generation of dust. Provide adequate ventilation. In the case of the formation of dust: Wear protective equipment. Do not breathe dust. Avoid contact with skin and eyes.
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Storage

Requirements for storerooms and containers:	Keep container dry.
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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Type	Limit value
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	10 mg/m ³ synthetic fibres, Polyolefines
Canada: VEMP	3 mg/m ³ (total dust, respirable fraction)
Canada: VEMP	5 mg/m ³ Carbon and graphite fibres
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)

Engineering controls

For mechanical processing: Provide good ventilation and/or an exhaust system in the work area.
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. If necessary: Wear face protective shield.
Skin protection:	For mechanical processing: Wear suitable protective clothing. For machine processing: Protective gloves against mechanical risks. OSHA Standard - 29 CFR: 1910.138 Observe glove manufacturer's instructions concerning penetrability and breakthrough time. If necessary: Protective gloves according to OSHA Standard - 29 CFR: 1910.138. Glove material: nitrile rubber Breakthrough time ca. 480 min.
Respiratory protection:	For mechanical processing: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Particulates filter P2 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
General hygiene considerations:	Avoid generation of dust. Do not breathe dust. Wash hands before breaks and after work. Provide a conveniently located eye rinse station. 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, fibers Color: white or skin-colored (refer to section 1)
Odor:	odorless
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	220 - 260 °C
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:	at 20 °C: 1.12 - 1.15 g/cm ³
Water solubility:	at 20 °C: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available

Ignition temperature: approx. 350 °C

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions.

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: No data available

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

In case of inhalation: dust: May cause irritations.
 After eye contact: Article: mild irritant
 dust: May cause irritations.

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: Product is not biodegradable.

Additional ecological information

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

13. Disposal considerations

Product

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

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

No data available

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: 1 (Slight)
Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 1 (Slight)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)
Personal Protection: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
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
 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
 MFSU: Manufacture, formulation, supply and use
 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: 8/1/2008

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.