

**623TX - Polyamide Mesh Products**

Material number 623TX

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**1. Product and company identification****Product identifier**

Trade name: 623TX - Polyamide Mesh Products

**Relevant identified uses of the substance or mixture and uses advised against**General use: Article 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  
USAWWW: [www.ottobockus.com](http://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](mailto:USRegulatory@ottobock.com)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****CHEMTREC, Telephone: +1 (800) 424-9300****2. Hazards identification****Emergency overview**Appearance: Form: solid, fibers  
Color: white or flesh-colored (refer to section 1)  
Odor: odorless  
Classification: This substance 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**

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: 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: Swallowing is not regarded as a possible way of exposition.

**Most important symptoms/effects, 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, dry chemical 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 (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

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.

### Storage

**Requirements for storerooms and containers:**  
 Keep container dry.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	10 mg/m <sup>3</sup>
USA: ACGIH: TWA	3 mg/m <sup>3</sup>
USA: OSHA: TWA	15 mg/m <sup>3</sup>
USA: OSHA: TWA	5 mg/m <sup>3</sup>

### 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.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Form: solid, fibers Color: white or flesh-colored (refer to section 1)
Odor:	odorless
Odor threshold:	No data available
pH value:	No data available
Melting point/freezing point:	428 - 500 °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:	at 68 °F: 1.12 - 1.15 g/cm <sup>3</sup>
Water solubility:	at 68 °F: insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Ignition temperature:	approx. 662 °F

## 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.

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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<sub>x</sub>), 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.

**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 - 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: X = Consult your supervisor

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 1/8/2008

**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.