

## 1 Identification

### Product identifier

Trade name: 87Zx - Fibersil

### Other means of identification

This safety data sheet pertains to the following products:

Article No. 87Z1: Fibersil = white

Article No. 87Z2: Fibersil = dark red

Article No. 87Z3: Fibersil = yellow

Article No. 87Z4: Fibersil = blue

Article No. 87Z5: Fibersil = red

Article No. 87Z6: Fibersil = black

Article No. 87Z7: Fibersil = brown

### Recommended use and restrictions on use

General use: Colouring agent for Silicone 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](http://www.ottobock.ca)

Email: [info.canada@ottobock.com](mailto: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 telephone number

**COLLECT, Telephone: (613) 996-6666**

## 2 Hazard identification

### Classification

This mixture is classified as not hazardous.

### Information elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

### Other hazards known to the supplier with respect to the product

Fibers/dust: May cause irritations.

In case of eye contact: Mild irritant.

Danger of dust explosion.

## 3 Composition/Information on ingredients

### Mixture

Chemical name: -Cellulose (viscose)-fibers (diameter: 8 - 50 µm, length: 0,3 - 0,5 mm). With the mentioned dimensions, these cut flock products are above the dimensions of "Respirable Fine Dust Fibres".  
-Pigment.  
-Coating agent < 0,5 %: Inorganic and organic chemicals which are indispensable for flock quality intended for electrostatic flocking.

## 4 First-aid measures

### Description of necessary first-aid measures

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

In case of swallowing: Rinse mouth thoroughly with water.  
Let water be swallowed in little sips.  
Seek medical treatment in case of troubles.

In case of skin contact: Remove residues with soap and water.

In case of 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.

### Most important symptoms and effects, whether acute or delayed

In case of inhalation: May cause irritations.

In case of eye contact: Mild irritant.

### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## 5 Fire-fighting measures

### Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

Full water jet

### Specific hazards arising from the product

Danger of dust explosion.

Emits toxic fumes under fire conditions.

In case of fire may be liberated: hydrogen cyanide, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide

### Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Avoid generation of dust. Wear appropriate protective equipment.

Environmental precautions:

Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

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

## 7 Handling and storage

### Precautions for safe handling

Advices on safe handling: Provide adequate ventilation. The use of local exhaust ventilation is recommended.

Avoid generation of dust. Wear appropriate protective equipment.

Precautions against fire and explosion:

Danger of dust explosion. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed. Protect from moisture contamination.

## 8 Exposure controls/Personal protection

### Control parameters

Occupational exposure limit values:

Type	Limit value
Canada: Alberta, OEL 8 hour	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: Alberta, OEL 8 hour	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: BC, OEL TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
Canada: BC, OEL TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
Canada: Québec, VEMP	10 mg/m <sup>3</sup> (total dust)
Canada: Québec, VEMP	3 mg/m <sup>3</sup> (total dust, respirable fraction)

### Appropriate engineering controls

Provide adequate ventilation. The use of local exhaust ventilation is recommended.

### Individual protection measures, such as personal protective equipment

Respiratory protection: With the formation of dust, use a dust mask.

Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. Particle filter device (EN 143) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

Hand protection: If necessary: Protective gloves according to EN 374 according to OSHA Standard - 29 CFR: 1910.138.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to EN 166. according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003

Body protection: Wear suitable protective clothing.

General hygiene considerations:

Avoid generation of dust.

Avoid contact with eyes.

Wash hands before breaks and after work.

### Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa Form: solid, fibers

Colour: refer to section 1

Odour: odourless

Odour threshold: No data available

Melting point and freezing point: No data available

Boiling point or initial boiling point and boiling range: No data available

Flammability: No data available

Lower and upper explosion limit or lower and upper flammability limit: No data available

Flash point/flash point range: No data available

Evaporation rate: No data available

Auto-ignition temperature: No data available

Decomposition temperature: > 175 °C

pH: No data available

Water solubility: insoluble

Partition coefficient — n-octanol/water: No data available

Vapour pressure: No data available

Density and/or relative density 1.52 g/cm<sup>3</sup>

Vapour density: No data available

Particle characteristics: Not applicable

### Additional information

Explosive properties:	Danger of dust explosion.
Ignition temperature:	approx. 420 °C
Bulk density:	50 - 200 kg/m <sup>3</sup>
Additional information:	<p>Minimum ignition energy in mJ: approx. 150</p> <p>Dust explosion category: 1</p> <p>Cut Flock/air mixtures may be explosive within certain concentration limits and sufficiently high ignition energies.</p> <p>On DC electrostatic flocking installations, flock samples can only be ignited at discharge energy &gt; 1300 mJ. Such discharges can only be achieved on a breakdown of the electrostatic flocking installations. On AC electrostatic flocking installations, ignitions of flock are more easy.</p> <p>Effects of solvents from adhesives in the air have to be considered carefully. For safe operation of electrostatic flocking installations, check NFPA 33.</p> <p>To follow:</p> <p>EN 50223: Automatic electrostatic application equipment for flammable flock material.</p> <p>NFPA 33: Standard for spray application using flammable or combustible materials.</p>

### 10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	<p>Combustible.</p> <p>Product is stable under normal storage conditions.</p>
Possibility of hazardous reactions:	Danger of dust explosion.
Conditions to avoid:	<p>Take precautionary measures against static discharges.</p> <p>Avoid generation of dust.</p>
Incompatible materials:	No data available
Hazardous decomposition products:	<p>Emits toxic fumes under fire conditions.</p> <p>In case of fire may be liberated: hydrogen cyanide, nitrogen oxides (NOx), carbon monoxide and carbon dioxide</p>

## 11 Toxicological information

### Information on the likely routes of exposure

No data available

### Health hazard information

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: May cause irritations.

After eye contact: Mild irritant.

## 12 Ecological information

### Ecotoxicity

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

Further details: No data available

### Persistence and degradability

Further details: Product is biodegradable with difficulty.

### Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

### Mobility in soil

No data available

### Other adverse effects

General information: Discharge into the environment must be avoided.

## 13 Disposal considerations

### Waste treatment methods

#### 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

TDG, IMDG, IATA-DGR: not applicable

### UN proper shipping name

TDG, IMDG, IATA-DGR: Not restricted

### Transport hazard class

TDG, IMDG, IATA-DGR: not applicable

### Packing group

TDG, IMDG, IATA-DGR: not applicable

### Environmental hazards

Marine pollutant: no

### Special precautions in connection with transport or conveyance either within or outside the premises

#### 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

Priority Substances List: listed (PSL 2)

CEPA Schedule 1: listed

### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Revision date: 17/12/2025  
Date of first version: 20/8/2008  
Reason of change: General revision: Safety Data Sheet according to Hazardous Products Regulations (HPR) 2022  
General revision: Safety Data Sheet according to HCS 2024 (29 CFR 1910.1200)

#### Abbreviations and acronyms:

AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CEPA: Canadian Environmental Protection Act  
CLP: Classification, Labelling and Packaging  
DIN: German Institute for Standardization  
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  
NF: French Standard  
NFPA: National Fire Protection Agency  
OEL: Occupational Exposure Limit Value  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
PSL: Priority Substances List  
TDG: Transportation of Dangerous Goods Regulation in Canada  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

### 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.