

1 Identification

Product identifier

Trade name: 28U11 - Walk On AFO

Recommended use and restrictions on use

General use: Reserved for industrial and professional use.
Article for orthopedic procedures.

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

Email: 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

Processing by heating can produce vapors. 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.

3 Composition/Information on ingredients

Mixture

Chemical name: Carbon fibres and Thermoplastic (PP)

Additional information: The maximum workplace exposure limits are, where necessary, listed in section 8.

4 First-aid measures

Description of necessary first-aid measures

In case of inhalation: Dust/Vapours: Provide fresh air. Seek medical treatment in case of troubles.

In case of swallowing: Dust: Repeatedly drink water. Seek medical treatment in case of troubles.

In case of skin contact: Dust: Remove residues with soap and water. Seek medical treatment in case of troubles.
If burned by hot product, quench immediately with cold tap water.
Do not peel solidified product off the skin. Immediately get medical attention.

In case of eye contact: Dust: 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

Carbon fibers (dust): 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

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

Special protective equipment and precautions for fire-fighters

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

Additional information:

Cool endangered containers with water spray and, if possible, remove from danger zone.
Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

For mechanical processing: Avoid generation of dust. Wear appropriate protective equipment. Keep unprotected people away. Provide fresh air.

Environmental precautions:

Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Take up mechanically. Dispose of waste according to applicable legislation.

7 Handling and storage

Precautions for safe handling

Advices on safe handling: Handle in accordance with good industrial hygiene and safety practice.

For mechanical processing:

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

Avoid generation of dust. Wear appropriate protective equipment. When using do not eat, drink or smoke.

If necessary: With the formation of dust, use a dust mask.

Precautions against fire and explosion:

Carbon Fiber is electrically conductive. It can cause short circuits within electrical equipment, if material dusts penetrate into the ambient air.

Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store at room temperature.

Protect from: heat, UV-radiation/sunlight

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.

8 Exposure controls/Personal protection

Control parameters

Occupational exposure limit values:

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

Appropriate engineering controls

For mechanical processing: Provide adequate ventilation.
The use of local exhaust ventilation is recommended.
In case of warming: Make sure that the processing machines are well equipped with suction and ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection: For mechanical processing:
In case of dust formation:
Dust mask.

Hand protection: In case of warming:
If necessary: Protective gloves against thermic risks
For mechanical processing:
Protective gloves according to OSHA Standard - 29 CFR: 1910.138
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

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

Body protection: For mechanical processing: Wear suitable protective clothing.

General hygiene considerations:
For mechanical processing: Avoid generation of dust.
In case of warming: Do not breathe vapours.
Wash hands before breaks and after work. Provide a conveniently located eye rinse station. When using do not eat, drink or smoke.

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
Colour:	black
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:	Thermoplastic: > 300 °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: No data available

Vapour density: No data available

Particle characteristics: Not applicable

Additional information

Ignition temperature: Carbon fibers: 350 °C

10 Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions:

Carbon Fiber is electrically conductive. It can cause short circuits within electrical equipment, if material dusts penetrate into the ambient air.

Conditions to avoid: Protect from: heat, UV-radiation/sunlight.

Incompatible materials: No data available

Hazardous decomposition products:

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

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.

Other information:

For mechanical processing: Possible in traces: formation of WHO-fibers.

classification WHO-fibers: Causes concern for man owing to possible carcinogenic effects.

In case of heating: risk of burns.

Symptoms

Carbon fibers (dust): mild irritant.

12 Ecological information

Ecotoxicity

Further details: No data available

Persistence and degradability

Further details: Product is not biodegradable.

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.

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

No data available

Further regulations, limitations and legal requirements

No data available

16 Other information

Revision date: 17/12/2025

Date of first version: 2/12/2008

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
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
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
TDG: Transportation of Dangerous Goods Regulation in Canada
TRGS: Technical Rules for Hazardous Substances
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative

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.