

## 1. Identification

### Product identifier

Trade name: 28U11 - Walk On AFO

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

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

### Details of the supplier of the safety data sheet

Company name: Otto Bock Health Care  
Street/POB-No.: 3820 W. Great Lakes Drive  
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USA

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Department 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:

Corporate headquarters:  
Ottobock SE & Co. KGaA  
Max-Näder-Straße 15  
Duderstadt  
Germany

### Emergency telephone number

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

## 2. Hazard identification

### Classification of the substance or mixture

This material is classified as not hazardous.

### Label elements

Symbols: not applicable

Hazard statements: not applicable

Precautionary statements: not applicable

### Other hazards

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

#### Mixtures

Chemical characterization: Carbon fibers and Thermoplastic (PP)

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

### 4. First aid measures

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

Following 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.

After 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.

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

#### Most important symptoms/effects, acute and delayed

Carbon fibers (dust): mild irritant.

#### Information to physician

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

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: carbon monoxide and carbon dioxide.

#### Protective equipment and precautions for firefighters

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 vapors. 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

Methods for clean-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
USA: ACGIH: TWA	10 mg/m <sup>3</sup> (Dust limit value, inhalable fraction)
USA: ACGIH: TWA	3 mg/m <sup>3</sup> (Dust limit value, respirable fraction)
USA: OSHA: TWA	15 mg/m <sup>3</sup> (Dust limit value, total dust)
USA: OSHA: TWA	5 mg/m <sup>3</sup> (Dust limit value, 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.

### Personal protection equipment (PPE)

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 vapors.  
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 68 °F and 101.3 kPa	Form: solid
Color:	black
Odor:	odorless
Odor threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	No data available
Explosion limits:	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
Viscosity:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Density:	No data available
Vapor density:	No data available
Particle characteristics:	Not applicable

### Additional information

Ignition temperature: Carbon fibers: 662 °F

## 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 toxicological effects

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.

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

DOT, IMDG, IATA-DGR: not applicable

### UN proper shipping name

DOT, IMDG, IATA-DGR: Not restricted

### Transport hazard class(es)

DOT, IMDG, IATA-DGR: not applicable

### Packing group

DOT, IMDG, IATA-DGR: not applicable

### Environmental hazards

Marine pollutant: no

### Transport in bulk according to IMO instruments

No data available

### Special precautions for user

#### 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

Product: Refer to 29 CFR Part 1910 subpart q - Welding, Cutting, Brazing 1910.252.

Carbon fibers: NIOSH Recommendations:  
Occupational Health Guideline: 0307

### National regulations - U.S. State Regulations

No data available

### Further regulations, limitations and legal requirements

No data available

## 16. Other information

Revision date: 12/17/2025

Date of first version: 12/2/2008

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)

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:

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  
DOT: Department of Transportation's Safety Regulations (USA)  
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  
TRGS: Technical Rules for Hazardous Substances  
UV: Ultraviolet  
vPvB: Very persistent and very bioaccumulative



# SAFETY DATA SHEET

according to HCS 2024 (29 CFR 1910.1200)

## 28U11 - Walk On AFO

Material number 028U11

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Replaces version: 5.2

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Page: 8 of 8

### 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.