

WP002 - Wooden parts with polyurethane-foam

Material number WP002

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1. Product and company identification

Product identifier

Trade name: WP002 - Wooden parts with polyurethane-foam

This safety data sheet pertains to the following products:

Article No. 1A*: Greissinger plus foot

Article No. 1H*: Single Axis Foot

Article No. 1P*: Pirogoff Foot

Article No. 1S*: SACH Foot

Article No. 1D*: Dynamic Foot

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

General use: Article: Wooden parts with polyurethane-foam 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

Postal Code, city: Salt Lake City, UT 84120
USA

WWW: www.ottobockus.com

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Department responsible for information:

Quality Department,

Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),

Email: USRegulatory@ottobock.com

Additional information:

Corporate headquarters:

Ottobock SE & Co. KGaA

Max-Näder-Straße 15

Duderstadt

Germany

Emergency phone number

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

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

2. Hazards identification

Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: solid

Color: Light up to dark

Odor: Like wood, characteristic

Classification: Article not subject to hazard labelling or classification.

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Hazards not otherwise classified

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
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: Poplar-wooden parts with polyurethane-foam

Additional information: Article: Product does not require special labeling according to US / Canadian legislation.

4. First aid measures

General information: For mechanical processing: dust formation.
In case of inhalation: Move victim to fresh air. Seek medical attention if irritation persists.
Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Seek medical attention if irritation persists.
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: Do not induce vomiting. Seek medical attention.

Most important symptoms/effects, acute and delayed

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: Not applicable
Auto-ignition temperature: Wood-dust: 399.2 - 500 °F
Suitable extinguishing media: Water spray jet
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:
Aldehydes, aromatic hydrocarbons, nitrous fumes, carbon monoxide and carbon dioxide.
Wood-dust: On contact with air, potentially explosive mixtures may develop.

Protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus. Wear suitable protective clothing.

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6. Accidental release measures

- Personal precautions:** Provide adequate ventilation. Avoid generation of dust. Avoid contact with skin and eyes. Do not breathe dust. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. If necessary: Use appropriate respiratory protection.
- Environmental precautions:** Discharge into the environment must be avoided.
- Methods for clean-up:** Take up carefully when dry. Dispose of in accordance with the regulations.

7. Handling and storage

Handling

- Advices on safe handling:** For mechanical processing: Provide adequate ventilation, and local exhaust as needed. Use local exhaust in the field of the processing equipment. Avoid contact with skin and eyes. Do not breathe dust. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.
- Precautions against fire and explosion:** Keep away from sources of ignition - No smoking. Avoid open flames. Protect from excessive heat.

Storage

- Requirements for storerooms and containers:** Store in a well-ventilated and dry room at temperatures between 41 °F and 86 °F.
- Hints on joint storage:** Do not store together with oxidizing agents.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	1 mg/m ³ (inhalable fraction)
USA: NIOSH: TWA	1 mg/m ³ (wood, Dusts)

Additional information: (definition Inhalable fraction of dust (wood-dust) according to EN 481: diameter < 100 µm)

Engineering controls

- For mechanical processing: Use local exhaust in the field of the processing equipment. See also information in chapter 7, section storage.

Personal protection equipment (PPE)

- Eye/face protection:** For mechanical processing: Tightly sealed safety glasses OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2003. If necessary: face protection shield.

Skin protection:	For mechanical processing: Wear suitable protective clothing. For mechanical processing: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Respiratory protection:	When vapors form, use respiratory protection. For mechanical processing: Dust mask. Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.
General hygiene considerations:	Avoid generation of dust. Keep away from sources of ignition - No smoking. Wash hands before breaks and after work. For mechanical processing: Avoid contact with skin and eyes. Do not breathe dust. When using do not eat or drink. Wash hands before breaks and after work. Keep all containers, equipment and working place clean. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: solid Color: Light up to dark
Odor:	Like wood, characteristic
Odor threshold:	No data available
pH:	Not applicable
Melting point/freezing point:	Polyurethane-foam: 446 - 500 °F
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	Combustible
Explosion limits:	LEL (Lower Explosion Limit): Wood-dust: 40,0 g/m ³
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Wood-dust: 399.2 - 500 °F
Thermal decomposition:	Polyurethane-foam: > 260°C
Additional information:	No data available

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	None
Conditions to avoid:	Keep away from sources of ignition - No smoking. Avoid open flames. Wood-dust: On contact with air, potentially explosive mixtures may develop.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	Polyurethane-foam: > 260°C

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.
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Symptoms

In case of inhalation: Wood-dust:
May cause irritations. The following symptoms may occur: throat dryness, dust deposits, sneeze, cough, hoarseness, pain.
In case of prolonged exposure:
May cause cancer by inhalation. (Nasal and paranasal cancer.) May cause chronic bronchitis and permanent allergic reactions.
In case of ingestion: Wood-dust:
The following symptoms may occur: Gastrointestinal irritation.
After contact with skin: Mild irritant
Wood-dust:
Frequent or prolonged skin contact may cause irritation and inflammation.
In case of prolonged exposure: May produce an allergic reaction.
After eye contact: Mild irritant
Wood-dust:
May cause irritations. Upon direct contact with eyes may cause burning, tearing, redness.

General remarks

Wood-dust:
May cause sensitisation especially in sensitive humans.

12. Ecological information

Ecotoxicity

Further details: No data available

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

0 % by weight

General information: Discharge into the environment must be avoided.

13. Disposal considerations

Product

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

Package

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.

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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

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

This product is an article as defined by TSCA regulations, and is exempt from TSCA inventory listing requirements.

National regulations - U.S. State Regulations

California Proposition 65: cancer

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16. Other information

Hazard rating systems:



NFPA Hazard Rating:

Health: 0 (Minimal)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 0 (Minimal)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	0
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
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
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
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

Reason of change: Changes in section 1: Changes of product list
General revision

Date of first version: 6/27/2007

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.