

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 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

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

General use: Article: Wooden parts with polyurethane-foam for orthopaedic procedures

1.3 Details of the supplier of the safety data sheet

Company name: Ottobock SE & Co. KGaA

Street/POB-No.: Max-Näder-Straße 15

Postal Code, city: 37115 Duderstadt

Germany

E-mail: export@ottobock.de

Telephone: +49 (0)5527 848-0

Telefax: +49 (0)5527 72330

Department responsible for information:

Arbeitssicherheit, Telephone: 05527-848-0, e-mail: Arbeitssicherheit@ottobock.de

Only available during office hours.

1.4 Emergency telephone number

Telephone: +49 (0)5527 848-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This substance is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

2.3 Other hazards

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.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical characterisation: Poplar-wooden parts with polyurethane-foam

Additional information: Article: The product does not have to be labelled according to guideline 67/548/EEC.

SECTION 4: First aid measures**4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: Water spray jet

5.2 Special hazards arising from the substance or mixture

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.

5.3 Advice for firefighters

Special protective equipment for firefighters:

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

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid generation of dust.

If necessary: Use appropriate respiratory protection.

6.2 Environmental precautions

Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Take up carefully when dry. Dispose of in accordance with the regulations.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe 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 suitable protective clothing. Explosion protection required.

Precautions against fire and explosion:
Keep away from sources of ignition - No smoking.
Avoid open flames. Protect from excessive heat.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C.

Hints on joint storage: Do not store together with oxidizing agents.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

8.2 Exposure controls

For mechanical processing:
Use local exhaust in the field of the processing equipment.

Personal protection equipment

Occupational exposure controls

Respiratory protection: If vapours form, use respiratory protection.
For mechanical processing: Dust mask.
Respiratory protection must be worn whenever the WEL levels have been exceeded.
filter P2 or FFP2 (EN 141).

Hand protection: For mechanical processing:
combination Protective gloves against mechanical risks according to EN 388
and Chemically resistant glove according to EN 374.

Eye protection: For mechanical processing: Tightly sealed safety glasses according to EN 166.
If necessary: face protection shield.

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

General protection and hygiene measures:
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.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	Form: solid
Colour:	light up to dark
Odour:	like wood, characteristic
Odour threshold:	No data available
Melting point/freezing point:	Polyurethane-foam: 230 - 260 °C
Initial boiling point and boiling range:	No data available
Flammability:	combustible
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Wood-dust: 40,0 g/m ³
Flash point/flash point range:	No data available
Decomposition temperature:	Polyurethane-foam: > 260°C
pH:	No data available
Viscosity, kinematic:	No data available
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	No data available
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	Wood-dust: 204 - 260 °C
Evaporation rate:	No data available
Additional information:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

refer to 10.3

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

none

10.4 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.

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

In case of fire may be liberated:
Aldehydes, aromatic hydrocarbons, nitrous fumes, carbon monoxide and carbon dioxide.
Thermal decomposition: Polyurethane-foam: > 260°C

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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.

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.

After swallowing: Wood-dust:
The following symptoms may occur: Gastrointestinal irritation.

Following skin contact: 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.

11.2 Information on other hazards

Endocrine disrupting properties: No data available

General remarks

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

SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 03 01 05 = Wastes from wood processing and the production of panels and furniture.
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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

Further regulations, limitations and legal requirements:

Euopean directive 2004-37-EC annex I Nr. 5: hardwood-dust carcinogen

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Literature:

- Euopean directive 2004-37-EC annex I Nr. 5
- IARC, Vol. 62: Wood, Dust and Formaldehyde, Lyon, 1995

Reason of change:

General revision

Date of first version:

27/6/2007

Department issuing data sheet: see section 1: Department responsible for information

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
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EEC: European Economic Community
EQ: Excepted quantities
EU: European Union
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
LEL: Lower Explosion Limit
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OEL: Occupational Exposure Limit Value
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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.