

1. Product and company identification

Product identifier

Trade name: WP001 - Wooden parts

This safety data sheet pertains to the following products:

Article No. 6P1: SOCKET BLOCK -POPLAR WOOD-

Article No. 10A40: Wrist Connector of wood

Article No. 2K*: Shaped Ankle Block

Article No. 3P*: Knee-Shin Component

Article No. 512A1=*: Wooden Half Disk

Article No. 5R1=1: Socket Attachment Block

Article No. 5R1=2: Socket Attachment Block

Article No. 5R1=6: Socket Attachment Block

Article No. 5R1=6-H: Socket Attachment Block

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

General use: Article: Wooden parts 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: Form: solid

Color: light up to dark

Odor: like wood

Classification: Article not subject to hazard labelling or classification.

Regulatory status

This material is not considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

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: Article: Wood, wooden parts

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: After contact with skin, wash with soap and plenty of water. Seek medical treatment in case of troubles.

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: Ingestion is not considered a possible route of exposure.
In case of dust: Rinse mouth with water. Do not induce vomiting without medical assistance. Seek medical attention.

Most important symptoms/effects, acute and delayed

In case of inhalation: In case of dust: Can irritate the mucous membrane.
In case of ingestion: In case of dust: Can damage your health.
After eye contact: In case of dust: slightly irritant

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: No data available

Auto-ignition temperature: 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, 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 appropriate protective equipment.

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:

Eliminate all ignition sources if safe to do so. Avoid generation of dust.

In case of dust: Do not breathe dust. Wear appropriate protective equipment. 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 generation of dust. Avoid contact with skin and eyes. Do not breathe dust.

Wear suitable protective clothing. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Avoid open flames. Protect from excessive heat.

Take standard precautions to prevent fire.

Storage

Requirements for storerooms and containers:

Store at room temperature. Store in a dry place.

Hints on joint storage:

Do not store together with oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

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)

Engineering controls

For mechanical processing:

Use local exhaust in the field of the processing equipment. The use of local exhaust ventilation is recommended.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection:	For mechanical processing: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010
Skin protection:	For mechanical processing: Wear suitable protective clothing. For mechanical processing: Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
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. Keep all containers, equipment and working place clean.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Form: solid Color: light up to dark
Odor:	like wood
Odor threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
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:	approx. 0.55 - 0.65 mg/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	399.2 - 500 °F
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	None Dust (wood): On contact with air, potentially explosive mixtures may develop.
Conditions to avoid:	Keep away from sources of ignition - No smoking. Avoid open flames. Avoid generation of dust.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	In case of fire may be liberated: Aldehydes, aromatic hydrocarbons, carbon monoxide and carbon dioxide.
Thermal decomposition:	No data available

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.
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:	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:	Wood-dust: May cause irritations. Upon direct contact with eyes may cause burning, tearing, redness.

Other information: Dust (wood):
May cause sensitisation especially in sensitive humans.

Symptoms

In case of inhalation: In case of dust: Can irritate the mucous membrane.
In case of ingestion: In case of dust: Can damage your health.
After eye contact: In case of dust: slightly irritant

12. Ecological information

Ecotoxicity

Further details: Product is biodegradable.

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 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

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

National regulations - Great Britain

Hazchem-Code:

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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
 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
 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

Literature: - IARC, Vol. 62: Wood, Dust and Formaldehyde, Lyon, 1995

Reason of change: 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.