

616B - Collective Data Sheet for Prepreg materials

Material number 616B

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1. Product and company identification

Product identifier

Trade name: 616B - Collective Data Sheet for Prepreg materials

This safety information pertains to the following products:

616B10=5 = Carbonfaser Gewebepregreg

616B11=5 = Carbonfaser Gewebepregreg, UD

616B13=1 = Aramid Gewebepregreg

616B15=1 = Dyneema Gewebepregreg

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

General use: Fabric impregnated with bisphenol A epoxy resin (uncured) for orthopedic procedures.
Processing at Processing temperature 149 - 356 °F.
Reserved for industrial and professional use.

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: Varying colors

Odor: weak Characteristic

Classification: Article not subject to hazard labelling or classification.

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Regulatory status

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

Hazards not otherwise classified

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Processing by heating can produce vapors. For risks which have to be observed thereby, see section 7: Handling, section 8: Exposure controls / personal protection and section 11: Toxicology.
If handled and used properly, exposure to fibers is unlikely.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: Article

Contains: epoxy resins (20-65 %), Reinforcement (30-70 %)

4. First aid measures

General information: If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical attention.

Following skin contact: Immediately remove all contaminated clothing. Wash with generous amount of water and soap. 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. Consult doctor afterwards.

After swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

Most important symptoms/effects, acute and delayed

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Ingestion is not considered a possible route of exposure.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range: Not applicable

Auto-ignition temperature: No data available

Suitable extinguishing media: Foam, dry chemical powder, water spray jet, Carbon dioxide.

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Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

May form dangerous gases and vapors in case of fire.

Furthermore, there may develop: Nitrous fumes, carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full protection outfit (suit) against chemicals.

Additional information:

Do not breathe fumes.

Cool endangered containers with water jetspray.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

For that reason, provide adequate installations to retain fire water. Disposal of contaminated water and earth must take place according to local regulations.

6. Accidental release measures

Personal precautions:

Wear appropriate protective equipment.

Avoid contact with skin, eyes, and clothing.

Take off contaminated clothing and wash it before reuse.

Keep unprotected people away. Provide adequate ventilation.

In case of warming: Do not breathe vapors.

Environmental precautions:

Do not allow to penetrate into soil, waterbodies or drains.

Methods for clean-up:

Take up mechanically, placing in appropriate containers for disposal. Final cleaning.

7. Handling and storage

Handling

Advices on safe handling:

Wear appropriate protective equipment.

Avoid contact with skin, eyes, and clothing.

Provide good ventilation in the work area.

Take off contaminated clothing and wash it before reuse.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

In case of warming: Do not breathe vapors.

Precautions against fire and explosion:

Keep away from sources of ignition.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. storage temperature-64.4 °F up to 41 °F.

Hints on joint storage:

keep away from: Strong oxidizing agents,, amines, strong acids, bases

Keep away from food, drink and animal feedingstuffs.

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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

Type	Limit value
USA: ACGIH: TWA	0.4 mg/m ³ (respirable fraction)
USA: ACGIH: TWA	0.9 mg/m ³ (respirable fraction)
USA: NIOSH: TWA	0.9 mg/m ³
USA: OSHA: TWA	2.4 mg/m ³ (respirable fraction)

Engineering controls

Requires good ventilation.

Processing (In case of warming): receptor hood for fumes/vapors.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

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

Skin protection: Wear suitable protective clothing.

Protective gloves according to OSHA Standard - 29 CFR: 1910.138

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

In case of dust formation: Particulates filter N100 according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and after work.

Take off contaminated clothing and wash it before reuse.

In case of warming: Do not breathe vapors.

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: Varying colors

Odor: weak Characteristic

Odor threshold: No data available

pH: Not applicable

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

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Flash point/flash point range:	Not applicable
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Additional information:	No data available

10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Sensitive to heat and warmth. Stable under recommended storage conditions.
Possibility of hazardous reactions:	In case of warming: Polymerization along with heat production. While curing will be generated: heat (exothermic reaction)
Conditions to avoid:	heat
Incompatible materials:	Strong oxidizing agents, amines, strong acids, bases
Hazardous decomposition products:	No hazardous decomposition products when regulations for storage and handling are observed.
Thermal decomposition:	No data available

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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.

Symptoms

- In case of ingestion: Ingestion is not considered a possible route of exposure.
- After contact with skin: Causes skin irritation.
- May cause an allergic skin reaction.
- Repeated exposure may cause skin dryness or cracking, due to defatting properties.
- Other symptoms: Reddening.
- After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to penetrate into soil, waterbodies or drains.

13. Disposal considerations

Product

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

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Package

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

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

No data available

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National regulations - Canada

Bisphenol A epoxy resin (molecular-weight < 700): DSL: listed
Epichlorhydrin/Bisphenol A Epoxy Resin: DSL: listed
Bisphenol-F-epichlorhydrine resin: DSL: listed
Bisphenol A - 4-tert-Butylphenol - Epichlorhydrin polymer: DSL: listed

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Hazard rating systems:



See information supplied by the manufacturer.

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:

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
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
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
TRGS: Technical Rules for Hazardous Substances
TSCA: Toxic Substance Control Act
vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 8: Occupational exposure limit values
Changes in section 8: Occupational exposure limit values
Changes in section 8: Occupational exposure limit values

Date of first version: 10/27/2002

Department issuing data sheet

Contact person: see section 1: Department responsible for information



Safety information sheet

Voluntary product information following the Safety Data Sheet format

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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.