

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 1 of 8

### 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

#### Recommended use and restrictions on use

General use: Fabric impregnated with bisphenol A epoxy resin (uncured) for orthopedic procedures.  
Processing at Processing temperature 65 - 180 °C.  
Reserved for industrial and professional use.

#### Initial supplier identifier

Company name: Otto Bock HealthCare Canada Ltd.

Street/POB-No.: 5470 Harvester Road

Postal Code, city: Burlington, ON L7L 5N5, CA  
Canada

WWW: [www.ottobock.ca](http://www.ottobock.ca)

E-mail: [info.canada@ottobock.com](mailto:info.canada@ottobock.com)

Telephone: (800) 665-3327

Telefax: (800) 463-3659

Department responsible for information:

Mark Agro, Telephone: (800) 665-3327 (9 am - 5 pm)

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

#### Emergency phone number

**COLLECT, Telephone: (613) 996-6666**

**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 20 °C and 101.3 kPa: solid

Color: Varying colors

Odor: weak Characteristic

Classification: Article not subject to hazard labeling or classification.

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 2 of 8

### Regulatory status

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

### 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 characterisation: 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 and effects, both 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, extinguishing powder, water spray jet, Carbon dioxide.

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 3 of 8

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.

Special protective equipment and precautions for fire-fighters:

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-18 °C up to 5 °C.

Hints on joint storage:

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

Keep away from food, drink and animal feedingstuffs.

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page:

4 of 8

### 8. Exposure controls / personal protection

#### Exposure guidelines

Occupational exposure limit values:

Type	Limit value
Canada: OEL 8 hour	0.4 mg/m <sup>3</sup> (charcoal)
Canada: OEL 8 hour	0.9 mg/m <sup>3</sup> (Bituminous), (Anthracite), (respirable fraction)
Canada: OEL TWA	0.4 mg/m <sup>3</sup> (charcoal; respirable fraction)
Canada: OEL TWA	0.9 mg/m <sup>3</sup> (Bituminous, respirable fraction)
USA: ACGIH: TWA	0.4 mg/m <sup>3</sup> (respirable fraction)
USA: ACGIH: TWA	0.9 mg/m <sup>3</sup> (respirable fraction)
USA: NIOSH: TWA	0.9 mg/m <sup>3</sup>
USA: OSHA: TWA	2.4 mg/m <sup>3</sup> (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 20 °C and 101.3 kPa: solid  
Color: Varying colors

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 5 of 8

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
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

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 6 of 8

### 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.

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 7 of 8

### 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

### Canada: Transportation of Dangerous Goods (TDG)

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 - Canada

Bisphenol A epoxy resin (molecular-weight < 700): DSL: listed

## 616B - Collective Data Sheet for Prepreg materials

Material number 616B

Page: 8 of 8

### 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

## 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  
WHMIS: Workplace Hazardous Materials Information System

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:

27/10/2002

### 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.