

# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: 3/22/2018

Version: 12

Language: en-US

Date of print: 5/24/2018

# ottobock. 617Z3 - Pigment Paste, skin color brown, for resins

Material number 617Z 3

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## 1. Product and company identification

### Product identifier

Trade name: 617Z3 - Pigment Paste, skin color brown, for resins

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

General use: Pigment paste for lamination resin for orthopedic procedures  
For commercial user only

### 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](http://www.ottobockus.com)

Telephone: +1 (801) 956-2400

Telefax: +1 (801) 956-2401

Dept. responsible for information:

Quality Department,  
Telephone: +1 (801) 954-2304 (7 AM – 3 PM, Mountain Time),  
Email: [USRegulatory@ottobock.com](mailto: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: flesh-colored-brown

Odor: weak

Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A; Sensitization - skin - Category 1; Aquatic toxicity - chronic - Category 2;

Hazard symbols:



Signal word:

**Warning**

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Hazard statements: Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Toxic to aquatic life with long lasting effects.

Precautionary statements: Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

see section 11: Toxicological information

## 3. Composition / Information on ingredients

Chemical characterization: Preparation with epoxide resins and pigments

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 25068-38-6	Bisphenol A epoxy resin (molecular-weight < 700)	50 - 100 %	Skin Irritation - Category 2. Eye Irritation - Category 2A. Sensitization - skin - Category 1. Aquatic toxicity - chronic - Category 2.

## 4. First aid measures

General information: Always seek medical assistance if symptoms develop that are possibly due to exposure through skin or eye contact or through inhalation of fumes.

In case of inhalation: Provide fresh air. Put victim at rest and keep warm.  
Seek medical attention if problems persist.

Following skin contact: Take off contaminated clothing and wash it before reuse.  
After contact with skin, wash immediately with soap and plenty of water. Do not use solvents or thinners. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.  
Subsequently consult an ophthalmologist.

After swallowing: Have victim repeatedly drink large amounts of water with activated charcoal. Never give anything by mouth to an unconscious person. Do not induce vomiting. In case of vomiting, position victim on their side. In case of breathing difficulties administer oxygen.  
Seek medical attention.

### Most important symptoms/effects, acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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### 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:

Alcohol resistant foam, carbon dioxide, dry chemical powder, water spray jet

Extinguishing media which must not be used for safety reasons:

strong water jet

### Specific hazards arising from the chemical

Exposure to fire produces thick, black smoke that is hazardous to health. Hazardous decomposition byproducts may form with exposure to high temperatures. E.g.: phenols, Carbon monoxide, carbon dioxide and fume. Inhaling hazardous decomposing products can cause serious health damage. phenols

Protective equipment and precautions for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Cool exposed containers with water spray.

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

## 6. Accidental release measures

Personal precautions: Wear personal protection equipment. Avoid contact with skin, eyes, and clothing. Provide adequate ventilation. Avoid the formation of aerosol/vapors. Keep unprotected people away. Do not breathe vapor or spray.

Environmental precautions:

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

Methods for clean-up:

Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance.

Additional information:

Keep away from heat sources, sparks and open flames.

## 7. Handling and storage

### Handling

Advices on safe handling: Make sure there is sufficient air exchange and / or that working rooms are air suctioned. Avoid the formation of aerosol. Do not breathe vapors. Do not empty containers with pressure - no pressure vessel! Handle and open container with care. Avoid contact with the substance.

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### Storage

Requirements for storerooms and containers:

Store only in original, tightly closed containers at room temperature.  
Store containers in upright position. storage temperature: 59 - 86 °F.  
Protect against heat /sun rays.

Hints on joint storage:

Keep away from strongly acidic and alkaline materials as well as oxidizers.  
Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Engineering controls

Provide adequate ventilation.  
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 and shoes.  
protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
Glove material: nitrile rubber.  
Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: In case of warming:  
When vapors form: Use filter type A (= against vapors of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.

General hygiene considerations:

Avoid contact with skin, eyes, and clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and after work. Remove residues with soap and water. Do not use any organic solvents.  
Have eye wash bottle or eye rinse ready at work place.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance: Physical state at 68 °F and 101.3 kPa: solid  
Color: flesh-colored-brown

Odor: weak  
Odor threshold: No data available

pH value: 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

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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:	Density at 20°C: 1,82 g/mL Viscosity: pasty

### 10. Stability and reactivity

Reactivity:	refer to section 10.3
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reactions are known.
Conditions to avoid:	Take precautionary measures against static discharges. Protect against heat /sun rays.
Incompatible materials:	Avoid contact with strong acids, strong bases and strong oxidizing agents.
Hazardous decomposition products:	Hazardous decomposition byproducts may form with exposure to high temperatures. E.g.: phenols, Carbon monoxide, carbon dioxide and fume.
Thermal decomposition:	No data available

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**11. Toxicological information****Toxicological tests**

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Sensitization - skin - Category 1 = May cause an allergic skin reaction.

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.

**General remarks**

Epoxy compounds of low molecular weight irritate eyes, mucous membranes and skin. Repeated skin contact may result in irritations and sensitizations, possibly due to a cross-over sensitization with other epoxy compounds. Preparation not tested.

**12. Ecological information****Ecotoxicity**

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

Following information applies to the component Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight  $\leq 700$ ):

Algae toxicity: EC50 algae: 220 mg/L/ 96 h.

Daphnia toxicity: EC50 Daphnia magna: 1,1 - 3,6 mg/L/ 24 h.

Fish toxicity: LC50 Oncorhynchus mykiss: 1,5 - 7,7 mg/L/ 96 h.

**Mobility in soil**

No data available

**Persistence and degradability**

Further details: No data available

**Additional ecological information**

Volatile organic compounds (VOC):  
(ASTM D-3960-1, ISO 11890-2) 0 % by weight = 0 g/L

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

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## 13. Disposal considerations

### Product

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.  
Do not dispose of with household waste.

### Contaminated packaging

Recommendation: Waste key number:  
150104 Metallic packaging  
150102 Plastic packaging  
Dispose of waste according to applicable legislation.

## 14. Transport information

### USA: Department of Transportation (DOT)

Identification number: UN3082  
Proper shipping name: UN 3082, UN 3082, ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin)  
Hazard class or Division: 9  
Packing Group: III  
Labels: 9  
Symbols: G  
Special provisions: 8, 146, 173, 335, IB3, T4, TP1, TP29  
Packaging – Exceptions: 155  
Packaging – Non-bulk: 203  
Packaging – Bulk: 241  
Quantity limitations – Passenger aircraft / rail: No limit  
Quantity limitations – Cargo only: No limit  
Vessel stowage – Location: A





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### Sea transport (IMDG)

UN number: UN 3082  
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin)  
Class or division, Subsidiary risk: Class 9, Subrisk -  
Packing Group: III  
EmS: F-A, S-F  
Special provisions: 274, 335, 969  
Limited quantities: 5 L  
Excepted quantities: E1  
Contaminated packaging - Instructions: P001, LP01  
Contaminated packaging - Provisions: PP1  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP2, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

### Air transport (IATA)

UN/ID number: UN 3082  
Proper shipping name: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A epoxy resin)  
Class or division, Subsidiary risk: Class 9  
Packing Group: III  
Hazard label: Miscellaneous  
Excepted Quantity Code: E1  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Cargo Aircraft only: Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L  
Special provisions: A97 A158 A197  
Emergency Response Guide-Code (ERG): 9L

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

Bisphenol A epoxy resin (molecular-weight < 700): TSCA Inventory: listed; EPA flags XU  
TSCA HPVC: not listed

### National regulations - Great Britain

Hazchem-Code: •3Z

## 16. Other information

Text for labeling: Contains 50 - 100 % Bisphenol A epoxy resin (molecular-weight < 700). Safety data sheet available on request.



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Hazard rating systems:



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

Reason of change: Changes in section 1.3: Corporate headquarters

Date of first version: 10/6/1994

## Department issuing data sheet

Contact person: see section 1: Dept. 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.