

## 1 Identification

### Product identifier

Trade name: 617Z9 - Pigment Paste, black

### Recommended use and restrictions on use

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

### 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)

Email: [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 telephone number

COLLECT, Telephone: (613) 996-6666

Transport:

CONSULTANK Lutz Harder GmbH (Contract QUALI003)

Telephone: +49 (0)178-4337434 (from USA: 01149 178 4337434)

## 2 Hazard identification

### Classification

Skin Irritation 2

Causes skin irritation.

Eye Irritation 2A

Causes serious eye irritation.

Sensitization - skin 1

May cause an allergic skin reaction.

Aquatic toxicity - chronic 2

Toxic to aquatic life with long lasting effects.

### Information elements

Symbols:



Signal word:

**Warning**

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: Avoid breathing mist/vapours/spray.  
Wash hands and face thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection.  
  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.

### Other hazards known to the supplier with respect to the product

Special danger of slipping by leaking/spilling product.

## 3 Composition/Information on ingredients

### Mixture

Chemical name: A mixture of binder and pigments

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight $\leq 700$ )	25 - 50 %	Skin Irritation 2. Eye Irritation 2A. Sensitization - skin 1. Aquatic toxicity - chronic 2.

The actual concentration or concentration range is withheld as a trade secret.

## 4 First-aid measures

### Description of necessary first-aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation: Provide fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration. When in doubt or if symptoms are observed, get medical advice.

In case of 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.

In case of skin contact: 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. Take off contaminated clothing and wash it before reuse.

In case of 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.

**Most important symptoms and effects, whether acute or delayed**

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

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## 5 Fire-fighting measures

**Suitable and unsuitable extinguishing media**

Suitable extinguishing media:

Alcohol resistant foam, carbon dioxide, extinguishing powder, water spray jet

Unsuitable extinguishing media:

strong water jet

**Specific hazards arising from the product**

Exposure to fire produces thick, black smoke that is hazardous to health.

Hazardous decomposition byproducts may form with exposure to high temperatures.

E.g.: Hydrogen chloride, Carbon monoxide, carbon dioxide and fume.

Inhaling hazardous decomposing products can cause serious health damage.

**Special protective equipment and precautions for fire-fighters**

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

Additional information:

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear appropriate protective equipment. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse. Keep unprotected people away. Avoid the formation of aerosol/vapours. Avoid breathing dust/fume/gas/mist/vapours/spray.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

If necessary, notify appropriate authorities.

**Methods and material for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal. Clean using cleansing agents. Do not use solvents.

## 7 Handling and storage

### Precautions for safe 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/vapours. Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Wear appropriate protective equipment. Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse.  
 Do not empty containers with pressure - no pressure vessel!  
 Handle and open container with care. Do not breathe vapours.  
 Do not empty containers with pressure - no pressure vessel!  
 Handle and open container with care.  
 Avoid contact with the substance. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat sources, sparks and open flames. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store only in original, tightly closed containers at room temperature.  
 Store containers in upright position. storage temperature: 15 - 30 °C.  
 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

### Control parameters

### Appropriate engineering controls

Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

Respiratory protection:

In case of warming:  
 When vapours form: Use filter type A (= against vapours of organic substances) according to OSHA Standard - 29 CFR: 1910.134 or ANSI Z88.2.  
 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection:

Protective gloves according to OSHA Standard - 29 CFR: 1910.138.  
 Glove material:  
 Nitrile rubber (0.4 mm)  
 Chloroprene rubber (0.5 mm)  
 Butyl caoutchouc (butyl rubber) (0.7 mm)  
 Breakthrough time: >480 min.  
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

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

Body protection:

Wear suitable protective clothing and shoes.

### General hygiene considerations:

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

### Environmental exposure controls

Do not allow to enter into ground-water, surface water or drains.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Form: viscous black
Odour:	weak
Odour threshold:	No data available
Melting point and freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available
Lower and upper explosion limit or lower and upper flammability limit:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	No data available
Water solubility:	miscible
Partition coefficient — n-octanol/water:	No data available
Vapour pressure:	No data available
Density and/or relative density	at 20 °C: 1.78 g/cm <sup>3</sup>
Vapour density:	No data available
Particle characteristics:	Not applicable

### Additional information

Additional information: No data available

## 10 Stability and reactivity

Reactivity: Refer to subsection "Possibility of hazardous reactions".

Chemical stability: Stable under recommended storage conditions.

### Possibility of hazardous reactions:

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

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 products such as carbon dioxide, carbon monoxide, fumes, nitrogen oxides may develop with exposure to high temperatures.

## 11 Toxicological information

### Information on the likely routes of exposure

No data available

### Health hazard information

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

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

Sensitisation to the respiratory tract: Lack of data.

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

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

### Symptoms

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.

### Persistence and degradability

Further details: No data available

### Bioaccumulative potential

Partition coefficient — n-octanol/water:

No data available

### Mobility in soil

No data available

### Other adverse effects

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

## 13 Disposal considerations

### Waste treatment methods

#### Product

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

#### Package

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

## 14 Transport information

### UN number

TDG: UN3082  
IMDG, IATA-DGR: UN 3082

### UN proper shipping name

TDG, IMDG, IATA-DGR: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Bisphenol A epoxy resin)

### Transport hazard class

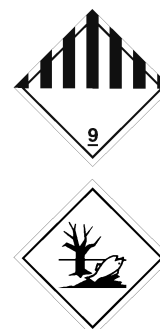
TDG: 9  
IMDG: Class 9, Subrisk -  
IATA-DGR: Class 9

### Packing group

TDG, IMDG, IATA-DGR: III

### Environmental hazards

Marine pollutant: yes



### Special precautions in connection with transport or conveyance either within or outside the premises

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

Special Provisions: 16, 99  
Explosive limit and limited quantity index: 5 L  
Marine pollutant: P

### Sea transport (IMDG)

EmS: F-A, S-F  
Special Provisions: 274 335 375 969  
Limited quantities: 5 L  
Excepted quantities: E1  
Package - Instructions: P001, LP01  
Package - Provisions: PP1  
IBC - Instructions: IBC03  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP29  
Stowage and handling: Category A.  
Properties and observations: -  
Marine pollutant: yes  
Segregation group: none

### Air transport (IATA)

Proper shipping name: UN 3082,  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Bisphenol A epoxy resin)  
Hazard label: Miscellaneous & Environmentally hazardous  
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 A215  
Emergency Response Guide-Code (ERG): 9L

## 15 Regulatory information

### National regulations - Canada

Product: Classification: D2B  
This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.  
Reaction product: DSL: listed  
Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ):

### Further regulations, limitations and legal requirements

No data available

## 16 Other information

Text for labelling: Contains Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight  $\leq 700$ ).

Revision date: 1/1/2026  
Date of first version: 6/10/1994  
Reason of change: Changes in section 14: IATA-DGR 2026

### Abbreviations and acronyms:

Aquatic toxicity - chronic: Hazardous to the aquatic environment - chronic  
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  
DSL: Domestic Substances List  
EC: European Community  
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods  
EN: European Standard  
EQ: Excepted quantities  
Eye Irritation: Eye irritation  
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  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
Sensitization - skin: Skin sensitisation  
Skin Irritation: Skin irritation  
TDG: Transportation of Dangerous Goods Regulation in Canada  
TRGS: Technical Rules for Hazardous Substances  
UN: United Nations  
vPvB: Very persistent and very bioaccumulative

### 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.