

# DSI Zoer-Root Cement Automix

## Root canal filling material

Material safety data sheet (MSDS)  
Version 1.0 / EN

10/08/2022

## SECTION 1: PRODUCT AND COMPANY INFORMATION

### 1.1. Product identifier

Product Name	DSI Zoer-Root Cement Automix
Intended use	permanent root canal filling material
Structure	flowable Paste, Color white

### 1.2. Details of the supplier of the safety data sheet:

Company Name	DSI Ltd.
Company Address	59 haAvoda str., Ashdod 7706300 Israel
Contact Name	Shlomi Krasner
Phone / Fax	+972.893.172.35
E-mail	info@dsisrael.com

Emergency telephone number:	
Phone / Fax	+972.893.172.35

## SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

### 2.1. Chemical characterization: **BASE**

COMPONENTS	C.A.S.	% by Wt
Zinc oxide	1314-13-2	35-40
Iodoform	75-48-8	14-17
Barium sulphate	7727-43-7	5-10
Magnesium oxide	1309-48-4	5-10
Olive oil	8001-25-0	25-30

## SECTION 3: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Health effects are based on the uncured material.

Classification of the substance or mixture:

EYE IRRITATION - Category 2B

GHS label elements

Hazard statements : Causes eye irritation.

Precautionary statements

**Prevention :** Wear eye or face protection. Wash hands thoroughly after handling.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage :** Not applicable.

**Disposal :** Not applicable

## SECTION 4: FIRST AID MEASURES

### **Description of necessary first aid measures**

**Inhalation:** No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

**Skin contact:** No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion:** No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

### **Most important symptoms/effects, acute and delayed** Potential acute health effects

**Eye contact :** Causes eye irritation.

**Inhalation :** No known significant effects or critical hazards.

**Skin contact :** Defatting to the skin. May cause skin dryness and irritation.

**Ingestion :** May be irritating to mouth, throat and stomach.

**Over-exposure signs/symptoms:** Adverse symptoms may include the following: irritation

**Inhalation** No specific data.

**Skin contact** Adverse symptoms may include the following:

**Irritation** Dryness **Ingestion:** No specific data.

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

**Notes to physician :** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## SECTION 5: MEASURES AND MEANS OF MAINTENANCE OF FIRE SAFETY

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media:** Do not use water jet.

**Specific hazards arising from the chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1 Personal precautions, protective equipment and emergency procedures :**

Avoid contact with skin and eyes. Avoid inhaling dust.

### **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

### **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### **6.4 Reference to other sections :**

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Information about fire-explosion protection :No special measures required.

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

### **7.3 Specific end use(s) :**

No further relevant information available

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any significant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

As a basis for the production of this document, the most current valid lists were used.

### **8.2 Exposure controls**

Personal protective equipment:

General protective and hygienic measures:

Keep away from food, beverages and pet food. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:** Protection gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Gloves material :

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked before use.

**Eye protection:** Safety glasses

Tightly sealed goggles

**Ingredients with limit values that require monitoring at the workplace:**

Exposure limit values per NOHSC :1003(1995)

Iodoform : 10mg/m<sup>3</sup> (0.6 ppm)

## SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

### 9.1. Information on basic physical and chemical properties:

Appearance:	
Form:	flowable Paste
Colour:	Base : white
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self igniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined.
Relative density :	Not determined.
Vapour density :	Not applicable.
Evaporation rate :	Not applicable.
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

#### Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions :** No dangerous reactions known.

**Conditions to avoid :** No further relevant information available.

**Incompatible materials:** No further relevant information available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- On the eyes: Irritating effect.
- Sensitization:

Sensitization possible through inhalation. Sensitization possible through skin contact.

· Additional toxicological information:

Iodoform : Inhalation, rat: LC50 = 165 ppm/7H; Inhalation, rat: LC50 = 183 ppm/7H; Oral, mouse: LD50 = 470 mg/kg; Oral, rabbit: LD50 = 450 mg/kg; Oral, rat: LD50 = 355 mg/kg; Skin, rat: LD50 = 1184 mg/kg; LC50: 60.8 mg/L/96h (Freshwater Fish)

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

Aquatic toxicity :No further relevant information available.

**Persistence and degradability :**No further relevant information available.

**Bioaccumulative potential :** No further relevant information available.

**Mobility in soil:** No further relevant information available.

- Ecotoxicological effects:
- Remark : Harmful to fish.
- Additional ecological information:
- General notes:

Water hazard class 2 (Self-assessment) : hazardous for water.

Danger to drinking water if even small quantities leak into ground.

### Results of PBT and vPvB assessment

- PBT : Not applicable
- VPvB : Not applicable

**Other adverse effects:** No further relevant information available.

## Waste treatment methods

- Must not be disposed off together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

## UN-Number

ADR, ADN, IMDG, IATA	Void
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## UN proper shipping name

ADR, ADN, IMDG, IATA	Void
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**Transport hazard class(es)**

ADR, ADN, IMDG, IATA

Class	Void
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### Packing group

ADR. IMPDG. IATA Void

### Environmental hazards:

Marine pollutant: No

<b>Special precautions for user</b>	Not applicable.
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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Clean Water Act (CWA): Not Listed

Clean Air Act (CAA): Not Listed

Full text of Classification abbreviations used in Section 2 and 3:

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin

R38 Irritating to skin.

R43 May cause sensitization by skin contact.

Acute Tox 4 Acute Toxicity Category 4

Eye Irrit. 2 Eye Irritation Category 2

Skin Irrit. 2 Skin Irritation Category 2

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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**Disclaimer:**

Since the working conditions of the final user are unknown, the information presented in this safety data sheet is based on the current level of our knowledge, based on national and general standards.

The product should not be used for any other purpose than those indicated under heading without first receiving written instructions for use. The user must take all necessary measures to comply with the requirements and rules of the law. The information in this safety data sheet should be considered as a description of the safety requirements that apply to our product and does not guarantee its properties.