Date of issue: 2015-07-01

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## SAFETY DATA SHEET

## **CHEMICAL SUBSTANCE / MIXTURE** REGULATION (EC) No1907/2006 AS AMENDED BY REGULATION (EU) No 453/2010

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1. Product identifiers

i-ZOE N (liquid) Product names

Chemical name

Identified uses Resin modified zinc oxide-eugenol cement

1.2. Details of the supplier of the safety data sheet

Company UAB "Medicinos linija" Address Karaliaučiaus str. 29

LT-78374 Šiauliai, Lithuania

+370 41 553 553 Telephone Fax +370 41 553 551 E-mail address dental@i-dental.lt

1.3. Emergency telephone number

Emergency telephone number +370 41 553 553

(Available only during office hours)

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Skin Sens.1 Eye Irrit.2 Acute Tox.4 Skin Irrit.2

#### 2.2. Label elements



**Pictograms** 

Signal word Warning

#### **Hazard statement**

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H315: Causes skin irritation

H302: Harmful if swallowed

EUH208: Contains eugenol. May produce an allergic reaction

### Precautionary statement (prevention)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray

P264: Wash hands thoroughly after handling

P272: Contaminated work clothing should not be allowed out of the workplace

P280: Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary statement (response)**

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330: IF SWALLOWED: rinse mouth. Do NOT induce vomiting P302+P352: IF ON SKIN: Wash with plenty of soap and water

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

P321: Specific treatment: rinse with plenty of water

P332+P313: If skin irritation occurs: Get medical advice/attention

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing

P337+P313: If eye irritation persists: Get medical advice/attention

P362: Take off contaminated clothing and wash before reuse

P363: Wash contaminated clothing before reuse

P310: Immediately call a POISON CENTRE or doctor/physician

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.1. Information on ingredients:

Name	CAS No	EC No	Hazard statement	Content, %
Eugenol	97-53-0	202-589-1	H317, H319, H315, H302, EUH208	99-100

Medicinos liniia Page 1 of 5 Trade name: i-ZOE N (liquid)

Date of issue: 2015-07-01
Reviewed: -

### **SECTION 4: FIRST AID MEASURES**

#### 4.1. General advice

In doubt, consult a physician. Show this safety data sheet to the doctor in attendance.

#### 4.2. If swallowed

Never give anything by mouth to an unconscious person. Take casualty to the hospital.

If the person is conscious rinse the mouth and spit the fluids out. Subsequently, have the casualty drink glass of water in small sips immediately. **Do NOT induce vomiting**. During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid the penetration of vomit into the air tube. Refer for medical attention.

### 4.3. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Refer for immediate medical attention.

#### 4.4. If inhaled

Remove the casualty from the hazardous area and take him to the fresh air. If not breathing, give artificial respiration. Keep warm and at rest. Refer for immediate medical attention.

#### 4.5. In case of skin contact

Take off contaminated clothing. Wash off with mild soap and plenty of water. If symptoms (irritation) occur obtain medical attention. Wash contaminated clothing before reuse.

#### 4.6. Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 4.7. Indication of any immediate medical attention and special treatment needed

No data available.

#### **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1. Extinguishing media

Use water, water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2. Advice for fire fighters

Standard procedure for chemical fires.

## 5.3. Special hazards arising from the substance or mixture

Carbon oxides.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

#### 6.2. Environmental precautions

Do not let product enter drains

## 6.3. Methods and materials for containment and cleaning up

Use personal protective equipment when cleaning. Wipe small spill with absorbent paper cloth. Large spillage should be handled with inert non-combustible absorbent material (e.g. sand, sawdust). Collect spilled material in appropriate container for disposal. Dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

For disposal see section 13.

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

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Use personal protective equipment. Keep tightly closed. Keep away from food, drinks and animal feed. Do not eat, drink or smoke when using this product.

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

Keep in cool, well ventilated place. Keep away from heat and direct sunlight. Storage temperature: Preferably not exceeding 28°C. Do not storage with strongly oxidizing substances.

#### 7.3. Specific end uses

Dental use only.

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

#### 8.1. Exposure limit values

No exposure guidelines have been established. ACGIH, NIOSH and OSHA have not developed exposure limits for this product.

## 8.2. Exposure controls

Provide adequate ventilation to prevent vapour formation. Storage properly (p.7).

Preventive medical check-ups should be arranged.

# 8.3. Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 8.4. Personal protective equipment

## 8.4.1. Eye/face protection

Wear eye / face protection equipment. Safety glasses with side-shields, conforming to EN 166.

Medicinos liniia Page 2 of 5

Date of issue: 2015-07-01

Reviewed: -

#### 8.4.2. Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For the permanent contact in work areas without heightened risk of injury (e.g. laboratory) gloves made of the following material are suitable: PVC, neoprene, rubber gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### 8.4.3. Skin protection

Keep working clothes separately. Take off contaminated clothing immediately. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### 8.4.4. Respiratory protection

If you need to protect the airways use respirators, that have been tested and approved by the relevant governmental standards, such as CEN (EU) or NIOSH (USA).

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. General information

Appearance oily liquid

Odour colourless to yellow

Colour clove – like, spicy, pungent odour

### 9.2. Important health, safety and environment information

Concentration 99.5% Flash point > 98°C

Specific gravity 1.064 – 1.080 (d.25/25)

Refractive index 1.535 – 1.661
Viscosity at 25°C No data available
Solubility soluble in alcohol

### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Stability

Stable under normal conditions

#### 10.2. Conditions to avoid

Protect from heat and direct sunlight.

#### 10.3. Materials to avoid

Strong oxidizing agents.

## 10.4. Hazard decomposition products

In combustion emits carbon monoxides and organic composites.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Possible dangerous to health effects

No data available regarding specific product.

#### 11.2. Inhalation

May be harmful if inhaled vapour. May cause respiratory tract irritation.

## 11.3. Skin corrosion/irritation

May be harmful if absorbed through skin. May cause skin irritation.

### 11.4. Serious eye damage/eye irritation

Causes serious eye irritation.

### 11.5. Respiratory or skin sensitization

May cause allergic skin reactions.

## 11.6. Ingestion

May be harmful if swallowed.

## 11.7. Germ cell mutagenicity

No data available.

### 11.8. Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### 11.9. Reproductive toxicity

No data available.

### 11.10. Specific target organ toxicity - single exposure

No data available.

### 11.11. Specific target organ toxicity - repeated exposure

No data available.

#### 11.12. Aspiration hazard

No data available.

#### 11.13. Additional Information

No data available.

## 11.14. Toxicity data

LD50 Oral - rat - 1.930 mg/kg.

Remarks: Behavioural: Altered sleep time (including change in righting reflex). Behavioural: Coma. Lungs,

Thorax, or Respiration: Dyspnea

Medicinos linija Page 3 of 5

Date of issue: 2015-07-01

Reviewed: -

### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. Ecotoxicity

LC50 - Oncorhynchus mykiss (rainbow trout) - 60,8 mg/l - 96 h

12.2. Mobility No data available 12.3. Persistence and degradability No data available No data available 12.4. Bio accumulative potential 12.5. Results of PBT and vPvB assessment No data available 12.6. Other adverse effects No data available

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packagings dispose of as unused product. Do not remove the information from package.

### **SECTION 14: TRANSPORT INFORMATION**

14.1. The product is not classified as dangerous for carriage

### **SECTION 15: REGULATORY INFORMATION**

- 15.1. This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006 as amended by Regulation (EU) No 453/2010.
- 15.2. Other Regulations: EINECS: Components of mixture are on the European Inventory of Existing Commercial Chemical Substances.
- 15.3. This safety data sheet information is not a professional risk assessment.
- 15.4. Safety, health and environmental regulations/legislation specific for the substance or mixture No data available.
- 15.5. Chemical Safety Assessment

No data available.

15.6. Health, safety and environmental information

No data available.

### **SECTION 16: OTHER INFORMATION**

- 16.1. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the
- 16.2. UAB "Medicinos linija" shall not be held liable for any damage resulting from handling or from contact with the above product.
- 16.3. The product should not be used for purposes other than specified in p.7.3 purposes.
- 16.4. User is responsible for the legal, regulatory compliance.
- 16.5. References to the changes that have been made in comparison with \_\_\_\_\_ version: whole document.
- 16.6. Abbreviations and acronyms used in the safety data sheet:
  - 16.6.1. EC European Commission
  - 16.6.2. GHS Globally Harmonized System
  - 16.6.3. CLP Classification Labelling Packaging Regulation16.6.4. CAS No Chemical Abstracts Service number CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

  - 16.6.5. EC No EINECS and ELINCS Number (see also EINECS and ELINCS)
  - 16.6.6. PBT Persistent, Bio accumulative and toxic substance
  - 16.6.7. VPvB Very Persistent and Very Bio accumulative
  - 16.6.8. ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
  - UN United Nations
  - 16.6.10. LC50 Lethal Concentration to 50 % of a test population
  - 16.6.11. LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
- 16.7. Key literature references and sources for data: http://echa.europa.eu.
- 16.8. List of relevant hazard statements, safety phrases and/or precautionary statements full text:

#### Warning Signal word

- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H315: Causes skin irritation
- H302: Harmful if swallowed
- EUH208: Contains eugenol. May produce an allergic reaction
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray
- P264: Wash hands thoroughly after handling
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Medicinos liniia Page 4 of 5 Trade name: i-ZOE N (liquid)

Date of issue: 2015-07-01
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P302+P352: IF ON SKIN: Wash with plenty of soap and water

P333+P313: If skin irritation or rash occurs: Get medical advice/attention

P321: Specific treatment: rinse with plenty of water

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313: If eye irritation persists: Get medical advice/attention P362: Take off contaminated clothing and wash before reuse

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P310: Immediately call a POISON CENTRE or doctor/physician

16.9. Training advice: How to properly handle chemical substances / mixtures employees must be trained in accordance with national requirements.

Medicinos linija Page 5 of 5