

Article number : 152021

Trade name : N2 Endodontic cement liquid

Print date : 03.04.00

Last revision date: 12.05.99

## 1. NAME OF SUBSTANCE / PREPARATION AND COMPANY

Commercial names/synonyms : N2 - Endodontic cement - liquid

Liquid component of a canal cement

Manufacturer : Hager & Werken GmbH & Co. KG  
Ackerstr. 1 D-47269 Duisburg  
P.O.B. 10 06 54 D-47006 Duisburg  
Phone : +49 (0203) 99 26 9 - 0

## 2. COMPOSITION / INFORMATION ON CONSTITUENTS

Description : Mixture of ether oils in the proportions set out below:

		%	CAS N°	Symbol	Risk code
Formula:	Eugenol	77,0	97-53-0	Xn	22
	Rose oil	1,8	8007-01-0		
	Lavender oil	1,2	8000-28-0		
	Peanut oil	20,0	8002-03-7		

## 3. POSSIBLE HAZARDS

Harmful if swallowed. Don't breathe the vapours. Avoid the contact with the eyes and the skin.

## 4. FIRST AID MEASURES

**If it comes into contact with the eyes :** Wash immediately in plenty of water and water or physiological solution for at least 10-15 minutes.

**If it comes into contact with the skin :** Remove the contaminated clothes and wash immediately in plenty of soap and water or physiological solution for at least 10-15 minutes.

**If it is swallowed :** In case of persistent symptoms, consult a doctor.

**If it is inhaled :** Remove the victim from the contaminated area and leave him or her to rest in a well ventilated area. If the victim has difficulty in breathing, call for a doctor immediately.

**General information :** Remove contaminated clothes

## 5. ACTIONS IN CASE OF FIRE

This liquid is combustible. Extinguish with a water jet, foam, powder or carbon dioxide.

## 6. ACTIONS IN CASE OF UNINTENTIONAL RELEASE

Stop the product reaching drains and other water channels.

Issue staff with protective clothing. Use inert material such as sand, sawdust, silcagel, etc, to soak up the liquid. Place everything in suitable containers to await disposal. Wash the area affected by the spill with plenty of water.

## 7. HANDLING AND STORAGE

Keep in hermetically sealed containers in a dry, well aired place.

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Keep the product away from naked lights, sources of heat and oxidising agents.

## 8. MAXIMUM EXPOSURE LIMITS AND PERSONAL PROTECTION EQUIPMENT

### Personal protection :

**Respiratory system** : Mask to protect against the organic fumes

**Eyes** : Safety goggles

**Skin** : Rubber gloves and apron

### Personal hygiene :

Do not eat, drink or smoke during handling. Work in premises equipped with efficient fume extraction systems.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form** : Liquid oil

**Colour** : Yellow

**Odour** : Eugenol aroma

**Solubility in water** : Insoluble

**Solubility in main organic solvents** : Mixes with alcohol, chloroform and oils

**PH** : 6.5 (20°C)

**Density (water = 1)** : 1,02 g/cm<sup>3</sup> (20°C)

**Specific weight of vapours (air = 1)** : 1,5 hPa (20°C)

**Melting point** :

**Boiling point** : >200 °C

**Flash point** : >110 °C

**Bottom and top flash points in air (% by volume)** :

**Ignition temperature** : The product isn't self-inflammable

**Decomposition temperature** : It doesn't dissociate if used according to specifications

## 10. STABILITY AND REACTIVITY

**Dangerous decomposition products** : None if used according to specifications

**Dangerous reactions** : None if used according to specifications

## 11. TOXICOLOGICAL INFORMATION

TLV / TWA ppm = mg/m<sup>3</sup>

TLV / STEL ppm = mg/m<sup>3</sup>

### ENTERS THE HUMAN BODY

Through swallowing, inhalation, touching

### ACUTE TOXICITY :

NO INFORMATION ABOUT THE MIXTURE IS AVAILABLE. THE INFORMATION GIVEN REFERS TO THE CONCENTRATED EUGENOL

Eugenol

DL50 oral rat 1930 mg/Kg

DL50 oral mouse 3000 mg/kg

DL50 intrap. Mouse 500 mg/kg

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The substance has a low level of acute toxicity. Moderate irritant effect because of its scouring action. If inhaled, it causes irritation to the nose, mouth and throat and coughing. Only if inhaled in large quantities will it cause dyspnea, depression of the central nervous system with consequent drowsiness, disturbance of sleeping and waking patterns and have a narcotic effect. Swallowing will cause burning sensations in the digestive system, nausea, headaches and giddiness. Touching may cause local irritation and rashes, chapping, eczema and drying of the skin. The substance acts as a local anaesthetic, delaying or eliminating the perception of pain.

#### **CORROSIVE IRRITANT PROPERTIES :**

**For the skin** : A moderate irritant effect, largely due to its scouring action. Causes rashes, chapping and eczema; the substance acts as a local anaesthetic, delaying or eliminating the perception of pain.

**For the eyes** : An average irritant effect, largely due to its scouring action. Causes a 'stinging' sensation and tears: the substance may act as a local anaesthetic, delaying or eliminating the perception of pain.

#### **CHRONIC TOXICITY :**

Systematic chronic toxicity of the substance is practically non existent. Prolonged and/or repeated exposure can cause tiredness, drowsiness, a feeling of dullness, possible respiratory difficulties and may damage the liver if taken in large quantities.

#### **IRRITANT PROPERTIES :**

No experimental or epidemiological evidence of the irritant properties of the substance is available. Cases of irritation caused by the use of eugenol during treatment have been reported.

#### **CARCINOGENESIS :**

No experimental evidence of carcinogenic properties is available. The active principle, eugenol, is classified as IARC Group 3: the carcinogenic effect of eugenol on humans cannot be classified (animals: slight evidence - no data available for humans).

#### **MUTAGENESIS :**

No experimental evidence is available for the preparation.  
The active ingredient, eugenol tested positive in some tests.

#### **TERATOGENY :**

No experimental evidence of this has been recorded.

#### **ADDITIONAL TOXICOLOGICAL INFORMATION :**

If used and handled according to specifications, the product doesn't have any harmful effect, for our experience and for the gathered information.

#### **TERATOGENY :**

No experimental evidence of this has been recorded.

### **12. ECOLOGICAL INFORMATION**

Dangerous for class 1 waters (German Regulation) (self classification). Follow prescribed procedures and do not discharge into the environment.

### **13. INFORMATION ON DISPOSAL**

Dispose in accordance with regulations in force for the disposal of dangerous products.

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## **14. TRANSPORT REGULATION**

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### **Transport by road and rail**

RID/ADR: Class Doesn't dangerous

CT/RAIL: Category

### **Transport by sea**

IMDG CODE: UN no.

Class

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### **Transport by air:**

ICAQ/IATA: UN no.

Class

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## **15. REGULATORY INFORMATION**

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**Danger rating** : Harmful

**Danger symbol** : Xn

R-codes :

R 22 Harmful if swallowed

**S-codes** :

S 23 Don't breathe the vapours

S 24/25 Avoid the contact with the eyes and the skin

## **16. OTHER INFORMATIONS**

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The data and information contained in this safety report are based on the most reliable information available at the moment that the report was drawn up. The company assumes no liability for harm to persons or damage to things that may arise from improper use of the information contained in this document.