

Article number : 152022

Trade name : N2 Endodontic cement powder

Print date : 19.06.04

Last revision date: 18.06.04

1. NAME OF SUBSTANCE / PREPARATION AND COMPANY

Commercial names/synonyms : N2 - Endodontic cement - powder

Solid 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 solids in the proportions set out

Formula:		%	CAS N°	Symbol	Risk code
Zinc oxide		65,000	1314-13-2		
Zinc stearate		0,075	557-05-1		
Dehydrated zinc acetate		0,075	5970-45-6		
Paraformaldehyde		5,000	305252-89-4	X _n	20/21/22 - 36/37/38 - 40 - 43
Titanium dioxide		4,710	13463-67-7		
Basic bismuth subcarbonate		10,000	5892-10-4		
Basic bismuth nitrate		15,000	1304-85-4		
Yellow ferrous oxide		0,040	1309-37-1		
Red ferrous oxide		0,100	1309-37-1		

3. POSSIBLE HAZARDS

Harmful if inhaled or swallowed or in contact with the skin. Irritates eyes, skin and respiratory tract. Possible irreversible damage.

4. FIRST AID MEASURES

If it comes into contact with the eyes : Wash immediately in plenty of water or physiological solution for at least 10-15 minutes. In case consult a doctor.

If it comes into contact with the skin : 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

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5. ACTIONS IN CASE OF FIRE

Extinguish with vaporised water, foam or powder. Issue staff with masks to protect the respiratory system.

6. ACTIONS IN CASE OF UNINTENTIONAL RELEASE

Issue staff with protective clothing. Stop the powder from spreading and then gather it up into containers for disposal. Wash the affected area with plenty of water and ensure that the area is adequately ventilated.

7. HANDLING AND STORAGE

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

The product is not a fuel but should nevertheless be kept away from sources of heat or flammable substances.

8. MAXIMUM EXPOSURE LIMITS AND PERSONAL PROTECTION EQUIPMENT

Personal protection :

Respiratory system : Mask

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 : Powdery solid

Colour : Pink

Odour: Pungent smell of formaldehyde

Solubility in water : Partially, when heated

Solubility in main organic solvents :

Solubility in inorganic acids : soluble

Density (water = 1) :

Specific weight of vapours (air = 1) :

Melting point : >1000 °C

Boiling point :

Flash point :

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

Ignition temperature :

Vapour pressure :

Decomposition temperature : None if used according to specifications

Solvents contained : 0.0%

Solids contained : 100%

10. STABILITY AND REACTIVITY

Dangerous decomposition products : None if used according to specifications

Dangerous reactions : None if used according to specifications

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11. TOXICOLOGICAL INFORMATION

TLV / TWA (as zinc oxide)	ppm = 5	mg/m ³
TLV/STEL (as zinc oxide)	ppm = 10	mg/m ³
TLV / TWA 1 (as paraformaldehyde)	ppm = 1,5	mg/m ³
TLV / STEL 2 (as paraformaldehyde)	ppm = 3	mg/m ³

ENTERS THE HUMAN BODY Through swallowing, inhalation, touching

ACUTE TOXICITY :

NO INFORMATION ABOUT THE MIXTURE IS AVAILABLE. THE INFORMATION GIVEN REFERS TO THE ACTIVE COMPONENT.

Paraformaldehyde DL50 oral rat 660 mg/Kg

The presence of formaldehyde in the product may cause a burning sensation, coughing, laryngitis, breathlessness, headaches, nausea and vomiting. It may provoke allergic reactions in the respiratory system and on the skin.

CORROSIVENESS. IRRITANT PROPERTIES :

For the skin : The preparation irritates the skin and causes local rashes and irritation.

For the respiratory system : The preparation irritates the respiratory system.

For the eyes : The preparation irritates the mucous membrane of the eye.

IRRITANT PROPERTIES :

The preparation has irritant properties and causes reactions in the skin and the respiratory apparatus.

CARCINOGENESIS :

No experimental or epidemiological evidence is available for the preparation

MUTAGENESIS :

No experimental evidence is available for the preparation.

TERATOGENY :

No experimental evidence of this has been recorded.

12. ECOLOGICAL INFORMATION

Dangerous for class 0 waters (German Regulation) (self classification). Generally it isn't pollutant for the water.

13. INFORMATION ON DISPOSAL

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

14. TRANSPORT REGULATION

Transport by road and rail :

RID/ADR: Class UN-No. :
 CT/RAIL: Category

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Transport by sea :

IMDG CODE: **UN-No. :**

Class

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It isn't a sea pollutant

Transport by air:

ICAO/IATA: **UN-No. :**

Class

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15. REGULATORY INFORMATION

Danger rating : Harmful

Danger symbol : Xn

R-codes :

R 20/21/22 Harmful if inhaled or swallowed or in contact with the skin

R 36/37/38 Irritates eyes, skin and respiratory tract

R 40 Possible irreversible damage

R 43 May cause irritation if it comes into contact with the skin.

S-codes:

S 26 If in contact with the eyes, wash immediately in plenty of water and consult a doctor

S 36 / 37 Use suitable protective clothing and gloves

S 45 In case of incident or indisposition, consult a doctor immediately (if possible, show him or her the label).

S 51 Use only in a well aired place

16. OTHER INFORMATIONS

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.