

Product: RESOSOLV

SDS No. 266112

Created on: 31/07/1999

Updated on: 30/12/2014

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 PRODUCT identification

RESOSOLV

1.2 Relevant use of mixture

Solvent for phenol-formol type root canal filling cements

1.3 Information concerning safety data sheet supplier

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EMERGENCY CALL NUMBER

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

According to Regulation 1272/2008/EC



Flam. Liq. 3 H226

Flammable liquid, category 3 (H226)

Eye Irrit. 2 H319

Eye irritation, category 2 (H319)

Repr. 1B H360D

Toxic for reproduction, category 1B (H360D)

Acute Tox. 4

Acute toxicity, category 4 (H312+H332)

H312 + H332



Skin Sens. 1 H317

Skin sensitization, category 1 (H317)

2.2 Label elements

Symbol(s)



Indication(s) of danger

Risk phrase(s)

DANGER

H226 Flammable liquid and vapour

H319 Causes serious eye irritation

H330D May damage the unborn child

H312 + H332 Harmful in contact with skin or if inhaled.

H317 May cause an allergic skin reaction.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P302 + P352 IF ON SKIN: wash with plenty of water/soap.

P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

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.

P308 + P313 IF exposed or concerned: get medical advice/attention.

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

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P501 Dispose of contents/container to an authorized center.

Not available

2.3 Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Liquid

Chemical name (Concentration %)			
CAS Nb	EC Nb	Index	Classification 1272/2008/CE (CLP)
CINNAMON OIL (1-2 %)			
8007-80-5	-	-	Warning Acute Tox. 4 H312 Skin Irrit. 2 H315 Skin Sens. 1 H317
N,N-DIMETHYLFORMAMIDE			
68-12-2	200-679-5	616-001-00-X	Danger Acute Tox. 4 H312 Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 1B H360D

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4. FIRST AID MEASURES

4.1 Description of the first aid measures

Inhalation	Remove to fresh air. Clear respiratory airways. In case of unconsciousness place patient stably in side position for transportation. Seek medical advice.
Contact with skin	Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, seek medical attention.
Contact with eyes	Irrigate copiously with clean, fresh water at least 15 minutes keeping the eyelids opened. Seek medical advice.
Ingestion	Do not drink, do not induce vomiting, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indications of possible immediate medical attention and particular treatment needed

Not available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media All are suitable.

5.2 Special hazards resulting from substance or mixture

Avoid breathing vapors. Vapors heavier than air. In case of fire, risk of hazardous vapors: nitrous gas

5.3 Advice to firefighters

Use self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Individual precautions, protection equipment and emergency procedures

Basic precautions Wear gloves and suitable goggles. Latex gloves are not recommended as permeable. Use gloves made of polyethylene or butyl rubber.

Means of protection Consult section 8

6.2 Environmental precautions

Do not dump into drains

6.3 Methods and material of confinement and cleaning up

Absorb with inert material (sand, vermiculite). Wash the soiled area with water

6.4 Reference to other sections

Consult section 8 for personal protection

Consult section 13 for disposal conditions

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep out of reach of children. Avoid contact with skin and eyes. Do not swallow. Do not breathe vapours. Close well the bottle after use. Wash hands thoroughly after handling. Wash soiled clothing before reuse.

Latex gloves are not recommended as permeable. Use gloves made of polyethylene or butyl rubber. Comply with conditions of use

7.2 Conditions for safe storage, including any incompatibilities

Conditions of storage Keep in its original container, tightly closed, protected from light and in a well ventilated place. Keep at a temperature between + 5 °C and + 25 °C.

7.3 Special end use(s)

Product for professional dental use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

VLE dimethylformamide France - Germany - Spain 5ppm (15mg/m³)

VLE dimethylformamide Belgium - UK 10ppm (30mg/m³)

8.2 Exposure controls

Respiratory protection Not necessary under normal conditions of use

Hand protection Wear appropriate gloves

Latex gloves are not recommended as permeable. Use gloves made of polyethylene or butyl rubber.

Eye/face protection Wear protective goggles

Skin and body protection Wear safety clothing. Wash hands after use. Do not eat, drink or smoke during use

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Color	Yellow
Odour	Characteristic of cinnamon
Boiling point	Next to 152 °C
Flash point	58 °C
Relative density at 20 °C	0.95

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not available

10.2 Chemical stability

Chemically stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Violent reactions possible with strong oxidizing agents, halogenated hydrocarbons

10.4 Conditions to avoid

Light, heat.

10.5 Incompatible materials

None according to our knowledge.

10.6 Hazardous decomposition products

Not available

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

ACUTE TOXICITY

Ingestion LD₅₀ (rat, oral) 2800 mg/kg
Inhalation DL₅₀ (rat) 9-15 mg/L/2 h
Cutaneous DL₅₀ (lapin) 1500 mg/kg
Oral mucosa Mild irritant according to ISO 10933-10: 2010
Cytotoxic according to ISO 10993-5: 2009 solution to 5000µg/mL

Eye irritation test

Rabbit : Irritating

Non-sensitizing to the skin according to ISO 10933-10: 2010.

CHRONIC TOXICITY

Based on of existing information, the risk alteration of the fertility must be considered probable.

Pregnant women should not be exposed to this product.

In case of skin contact: skin absorption hazard.

In case of contact with eyes: irritation.

In case of ingestion: digestive tract problem.

11.2 Other information

12. ECOLOGICAL INFORMATION

12.1 Toxicity Not available
12.2 Persistence and degradability Not available
12.3 Bioaccumulation potential Not available
12.4 Mobility in the soil Not available
12.5 Results of PBT and vPvB assessments Not available
12.6 Other adverse effects Not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Do not dump residue into drain. The chemicals must be eliminated in keeping with applicable regulations.
Packaging of chemical products must be eliminated in keeping with applicable regulations.

14. TRANSPORT INFORMATION

UN 2265: N,N-DIMETHYLFORMAMIDE
ADR: Class 3 Classification code F1 Packing group III
IMDG: Class 3 Packing group III
IATA: Class 3 Packing group III

15. REGULATORY INFORMATION

15.1 Special regulations/legislation for substance or mixture in terms of safety, health and environment Medical device in class IIa according to directive 93/42/EEC
Skin sensitization (ISO 10933-10: 2010) Report S-10-2013 Eurofins 2013-01681 LEMI
Oral mucosal irritation (ISO 10933-10: 2010) S-09-2013 Eurofins report 2013-9676 LEMI
Cytotoxicity (ISO 10993-5: 2009) report 03/2014 LEMI
15.2 Chemical safety evaluation Not available

16. OTHER INFORMATION

Successive modifications:

Version 1 of 05/07/2000: Creation

Version 2 of 26/08/2009: Updating of chap 9

Version 3 of 10/10/2012: Changes according to regulation EC No. 453/2010 annex 1

Version 4 of 09/07/2013: Modification of emergency number

Version 5 of 20/03/2014: Updating of chap 8-11 & 15. After result of biocompatibility: removal R43

Version 6 of 30/12/2014 : Changes according to CLP 1272/2008/EC

Abbreviations:

Flam. Liq. 3 H226: H225 Flammable liquid and vapour.

Acute Tox. 4 H312 Harmful in contact with skin.

Eyes Irrit. 2 H319 Causes serious eye irritation.

Acute Tox. 4 H332 Harmful if inhaled.

Repr. 1B. H360D May damage the unborn child.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Recommended restrictions on use

CAUTION: Product intended exclusively for professional dental use

Other information

This sheet complements the technical sheets but does not replace them.

The information that is contained herein is based on the state of our knowledge related to the product concerned at the date of issue and is given in good faith. Moreover, the user's attention is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

With the present, the user is not dispensed to know and to apply the whole regulating text of activity. He should be responsible for all precautions relating to the use of his product.

The whole regulation prescription mentioned is simply to help the user to fulfill the obligations in the use of hazardous product. This enumeration must not be considered as exhaustive. The user is not exempted to secure than those cited concerning the detention and the manipulation of product for which he is alone responsible.

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