

MATERIAL SAFETY DATA SHEET

following the 11014-1 ISO Norme

Product name : ENDOSOLV R
MSDS n° 080A Version : 01

Date : 19/12/1997
Page : 1/4

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **ENDOSOLV R**

SUPPLIER

Name : MAB DENTAL S.A.

Address : Córcega 116, - 08029 BARCELONA - SPAIN

Telephone : 93 363 85 55

Telecopy : 93 430 41 69

Emergency phone number :

2. COMPOSITION/INFORMATION ON COMPONENTS

PREPARATION

Chemical nature : Formamide based solution.

Components contributing to danger : Formamide [CAS : 75-12-7; classification EC : T-R61]: > 60%
Phenetyl alcohol [CAS : 60-12-8; classification Xi-R36]: 10-4%

3. HAZARD IDENTIFICATION

MAIN HAZARDS

Health hazards : Irritating to eyes.

Specific hazards : May cause harm to the unborn child (cf. parag. 11).

4. FIRST AID MEASURES

Inhalation : Move to fresh air. In case of any discomfort, refer to a specialist.

Skin contact : Wash immediately with plenty of water. Remove any contaminated clothing.

Eye contact : Rinse immediately with plenty of water for 15 minutes at least. Consult a specialist.

Ingestion : Warning ! Risk of aspiration while vomiting. Clear the respiratory tract. Refer to a specialist immediately.

5. FIRE-FIGHTING MEASURES

Extinguishing media.

Appropriate : CO₂ powder, foam resisting to alcohols.

Unsuitable : Avoid direct water jet.

Specific hazards : Combustible preparation. In case of fire formation of toxic vapors (CO, NH₃, HCN). Keep away from any ignition source.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Do not breathe vapors.

Precautions for environmental protection : Avoid discarding into sewer.

Cleaning up methods : Collect with an absorbent for liquid (sand, ...). Discharge to eliminate.

Cleaning/decontamination : Wash the contaminated site with plenty of water.

7. HANDLING AND STORAGE

HANDLING

Technical measures : Does not require any particular or specific technical measures.

Precaution : Avoid any direct contact.

Instructions for use : Refer to the technical data.

STORAGE

Technical measures : Store in the original packaging tightly closed.

Storage conditions

Recommended : Store tightly closed, away from light and damp in a well ventilated area and at room temperature (+15 to +25°C).

Incompatible products : "Refer to the detailed list in paragraph 10".

Packaging conditions : 13 ml yellow glass flask.

Packaging material

Recommended : Glass.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Technical measures : Does not require any particular specific or technical measures.

Personal protective equipments

Respiratory protection : Necessary in case of formation of vapors/sprays. Filter A (designed for gas and vapors from organic compounds with a boiling point exceeding 65°C).

Hand protection : Appropriate gloves.

Eye protection : Safety glasses.

Hygiene measures : Remove any contaminated clothing immediately. Skin preventive protection. Wash hands and face after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical : Liquid

Colour : Colourless

Odour : Rose odour

pH value : Not determined.

Specific temperatures : Not determined.

FLAMMABLE PROPERTIES

Flash point : Not determined.

EXPLOSION PROPERTIES

Explosion limits in air : Not determined.

Relative density (water = 1) : About 1.10

SOLUBILITY

In water : Not very soluble.

In organic solvents : Soluble in alcohol.

10. STABILITY AND REACTIVITY

Stability : Stable in normal conditions of use.

Hazardous reactions

Conditions to avoid : High warming.

Products to avoid : Oxidant, iodine, pyridine, sulphur trioxide, dehydrating agents.

Hazardous decomposition products : Ammoniac, carbon monoxide, hydrocyanic acid.

Other data : Sensitive to heat, hygroscopic. Formamide may explode in air resulting in vapors/gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Formamide LD50 (oral route, rat) = 5 800 mg/kg
Phenethyl alcohol : LD50 (oral route, rat) = 2 000 mg/kg

Effect of the decomposition products : very toxic.

Local effects : Irritating to eyes.

Specific effects

Toxicity for reproduction : Studies in animals : teratogenic effect.

According to annex VI of the Directive 67/548/EEC, this product is classified as TOXIC FOR REPRODUCTION of class 2 (strong presumption based on studies in animals).

12. ECOLOGICAL INFORMATION

Formamide is biodegradable.

Other ecological information : Avoid discarding directly in sewage system and in rivers.

13. DISPOSAL CONSIDERATIONS

Waste from residues

Banning : Discarding in sewage system and in rivers is strictly forbidden.

Destruction/elimination : Refer to local provisions in force.

Contaminated packagings

Destruction/elimination : Refer to local regulations in force.

Note : User's attention is drawn on the possible existence of specific legislative, regulatory and administrative dispositions related to its elimination ; these regulations may be applicable either in the European Community or be national or local.

14. TRANSPORT INFORMATION

Not submitted to transport prescriptions.

Note : The regulatory instructions cited above are those in force at the time of printing. However, one must always consider an eventual evolution of the rules related to the transportation of hazardous materials and thus should the MSDS in your possession be older than 1 year, it is recommended to have its validity checked by your commercial agent.

15. REGULATORY INFORMATION

REGULATIONS IN THE COMMUNITY

Compulsory labelling for hazardous preparations (self-classification) : CONCERNED.

Identification of the hazardous product : contains formamide.

Hazard indications : T - toxic

"R" phrases : R61 : May cause harm to the unborn child.
R36 : Irritating to eyes

"S" phrases : S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 : Avoid exposure. Obtain special instructions before use.

LABELLING FOR THE CONSIDERED PACKAGING (bottle < 125 ml)

Contains formamide (*the term "formamide" should be mentioned on the label*)



T - Toxique

May cause harm to the unborn child.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Avoid exposure. Obtain special instructions before use.

Note : The regulatory information gathered in this paragraph only recall the main prescriptions specifically applicable to the product for which this MSDS is prepared. The basic EC texts referred to are always updated and transferred to the national right. It is advised to consult any international, national or local regulations likely to be applied. User's attention is drawn on the fact that other complementary regulations might also be applicable.

16. OTHER INFORMATION

TYPES OF UTILIZATION

Recommended : Refer to the technical sheet.

Warning to users

This data sheet completes the technical notices but does not supersede them. The information contained in it is grounded on the statement of our knowledge of the product concerned at the publishing date.

Moreover, users' attention should be drawn on the possible risks incurred when a product is used for other purposes than those for which it has been designed. It does not stop in any case the user from knowing and following the whole regulatory texts related to his activity. He will be the sole responsible of the precautions related to the use of the product he knows.

The aim of the whole regulatory prescriptions mentioned is to help the receiver to fulfill his duties when using a hazardous product.

This list must not be considered as exhaustive. It does not stop the user from making sure that he complies with the written obligations other than those previously cited and which rule the fact of keeping and using the product for which he is the sole responsible person. .

*** NF ISO 11014-1 (1994) Standard :** Resume the directives 91/155/CEE and 93/112/CEE.

End of document : contains 4 pages.