

FR 8TK 000

SAFETY DATA SHEET
according to EC directive 93/112/EC
CORRECTION PEN



SUBID:000000007164

Version 2
Revision Date 10.08.2004

Print Date 12/05/05

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product Information**

Product name : CORRECTION PEN
Use of the : Correction pen
Substance/Preparation

Company/Undertaking Identification

Agfa-Gevaert Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 15. Full text of each relevant R-phrase is listed in section 16.

This correction pen mainly consists of a plastic housing enclosing a porous wick, which retains a very small quantity of corrector liquid. When not in use, the pen is closed with a protective cap. Labelling and hazard information in this Safety Data Sheet refers to the pure corrector liquid as retained in the wick.

Hazardous components

- | | | | | | |
|------------------------|----------------|---------------------|------|---|------|
| • 1-Methoxy-2-propanol | | Concentration [%] : | 60.0 | - | 80.0 |
| CAS-No. | : 107-98-2 | | | | |
| Index-No. | : 603-064-00-3 | | | | |
| EINECS-No. | : 203-539-1 | | | | |
| R-phrase(s) | : R10 | | | | |

Other

- | | | | | | |
|-----------------------------|--|---------------------|------|---|------|
| • Phenol-formaldehyde resin | | Concentration [%] : | 20.0 | - | 30.0 |
| • C.I. Basic Red 1 | | Concentration [%] : | 1.0 | - | 5.0 |

3. HAZARDS IDENTIFICATION

In normal conditions of storage, transport and use, the pencil will not cause any special health or safety hazard.

EC-classification:

R-phrase(s) : R10 Flammable.

4. FIRST AID MEASURES

- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
- Eye contact : Rinse with plenty of water. If necessary, seek medical advice.
- Ingestion : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Take person to fresh air. If necessary, seek medical advice.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : e.g. water, CO₂, foam, powder, sand
- Specific hazards during fire fighting : Combustion of one pencil will not cause a major problem to health, safety and to the environment. When burning large amounts of pencils, hazardous fumes can be set free. Their composition is depending on the conditions of the combustion process and will not substantially differ from that resulting from merely burning plastic housings and caps of such pencils.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : See section 8.
- Additional advice : Wash away residues with plenty of water.

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : In normal conditions of storage, transport and use, the liquid will not leak from the pencil.
- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Limit Values**

Components	CAS-No.	Values	Type	Revision date	Basis
1-Methoxy-2-propanol	107-98-2	375 mg/m ³	TWA	2002	EH40 OES
		560 mg/m ³	STEL	2002	EH40 OES
		375 mg/m ³	TWA	05 2001	EU ELV
		568 mg/m ³	STEL	05 2001	EU ELV

Exposure controls

- Engineering measures : Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
- Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness \geq 0.36 mm, breakthrough time > 480 min), nitrile rubber (thickness \geq 0.38 mm, breakthrough time > 480 min) or neoprene (thickness \geq 0.65 mm, breakthrough time > 240 min). For intermittent splash protection corresponding gloves with

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breakthrough times > 60 min can be used. Avoid gloves made of: natural latex.

Eye protection : Safety goggles.
Hygiene measures : Observe normal precautions when handling chemicals. Avoid inhaling vapour. Don't wear the correction pen on your body. Avoid that the tip of the wick comes into contact with the eyes and the skin. Always apply the protective cap to the pen, when the latter is not in use. Unproper handling, such as licking the wick, inhaling the corrector liquid or breaking and opening the pen, so as to set free the wick, is to be avoided. Keep away from foodstuffs, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : Liquid
Colour : Red
Odour : Pungent smell

Safety data

Melting point/range : < 0 °C
Boiling point/range : > 100 °C
Flash point : 38 °C
Ignition temperature : 285 °C
Lower explosion limit : 2.5 %(V)
Upper explosion limit : 20.0 %(V)
Vapour pressure : 8.30 hPa at 20 °C
Solubility/qualitative : Miscible with water at all ratios.
Relative vapour density : 2.6000

10. STABILITY AND REACTIVITY

Stability : The product is stable under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

R-phrases : R10 Flammable.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• 1-Methoxy-2-propanol : LD50 rat 3,739 mg/kg

Acute inhalation toxicity

• 1-Methoxy-2-propanol : LC50 rat > 6 mg/l/ 4 h

Acute dermal toxicity

• 1-Methoxy-2-propanol : LD50 rabbit 13,000 mg/kg

Other information

Hazard labelling of the corrector liquid: see section 15.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Pending the development of criteria for evaluating impact of a chemical preparation, ecological information referring to the most important individual ingredients present in this preparation is given here merely as an indication. The effective environmental impact of this preparation should of course be assessed taking into account the actual concentration of each individual ingredient in this preparation.

Toxicity to fish

- 1-Methoxy-2-propanol : Species: Pisces (fish)
Dose: 10.00 mg/l/ 96 h

Toxicity to daphnia

- 1-Methoxy-2-propanol : Species: Daphnia magna (water flea)
Dose: 148.00 mg/l/ 48 h

Further information on ecology

Additional ecological information : The corrector liquid does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation.

13. DISPOSAL CONSIDERATIONS

Used correction pencils are considered industrial waste. Refer to local provisions and regulations on disposal of such waste.

14. TRANSPORT INFORMATION

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

- CAS-No. : 107-98-2 1-Methoxy-2-propanol

R-phrases : R10 Flammable.

16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 1, 2, 3, 5, 6, 7, 8, 10, 11, 12, 15

Further information

Full text of R-phrases referred to under Sections 2 and 3:

R10 Flammable.

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

This product is not manufactured by Agfa. The information disclosed in this Safety Data Sheet has been provided by the manufacturer.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.