

SAFETY DATA SHEET

according to EC directive 2001/58/EC



SUPERMASTER PLUS CORRECTION PEN

SUBID : 000000007603

Version 1

Print Date 08.11.2007

Revision Date 24.08.2007

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

Identification of the substance/preparation

Product name : SUPERMASTER PLUS CORRECTION PEN

Use of the Substance/Preparation : Correction pen

Company/Undertaking Identification

Agfa-Gevaert Ltd.

Vantage West

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2. HAZARDS IDENTIFICATION

This preparation does not meet any of the criteria for classification as dangerous as defined by EC Directives and transposed into national legislation.

3. 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-phrased 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

- | | | | | | |
|-----------------------------|--------------------|---------------------|-----|---|-----|
| • EDTA-sodium salt | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 64-02-8 | | | | |
| EINECS-No. | : 200-573-9 | | | | |
| Symbol(s) | : Xn | | | | |
| R-phrased(s) | : R22, R36, R52/53 | | | | |
| • 3-Mercapto-1,2,4-triazole | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 3179-31-5 | | | | |
| EINECS-No. | : 221-656-6 | | | | |
| Symbol(s) | : Xn | | | | |
| R-phrased(s) | : R22, R36 | | | | |
| • Ethanol | | Concentration [%] : | 0.1 | - | 0.5 |
| CAS-No. | : 64-17-5 | | | | |
| Index-No. | : 603-002-00-5 | | | | |
| EINECS-No. | : 200-578-6 | | | | |
| Symbol(s) | : F | | | | |
| R-phrased(s) | : R11 | | | | |

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4. FIRST AID MEASURES

- Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, 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

- 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.
- Further information : Product is not combustible.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : See section : Exposure controls / personel protection.
- 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 : No special protective measures against fire and explosion required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Ethanol	64-17-5	1,920 mg/m3	TWA	2005	EH40 WEL

Exposure controls

- Engineering measures : Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
- Hygiene measures : Observe normal precautions when handling chemicals. 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

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Hand protection	:	free the wick, is to be avoided. Keep away from foodstuffs, drinks and tobacco. 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 breakthrough times > 60 min can be used. Avoid gloves made of: natural latex.
Eye protection	:	Safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	:	Liquid.
Colour	:	Brown
Odour	:	Weak odour.

Important Health Safety and Environmental Information

Vapour pressure (20 °C)	:	23.00 hPa
Relative density (20 °C)	:	1.191
Solubility/qualitative	:	Miscible with water at all ratios.
pH (25 °C)	:	7.1
Melting point/range	:	< 0 °C
Boiling point/range	:	> 100 °C

10. STABILITY AND REACTIVITY

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

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• EDTA-sodium salt	:	LD50 rat	> 1,000 mg/kg
• 3-Mercapto-1,2,4-triazole	:	LD50 rat	738 mg/kg
• Ethanol	:	LD50 rat	7,060 mg/kg

Acute inhalation toxicity

• Ethanol	:	LC50 rat	> 8,000 mg/l/ 4 h
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Acute dermal toxicity

• EDTA-sodium salt	:	LD50 rabbit	> 2,000 mg/kg
• Ethanol	:	LDL0 rabbit	20,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

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Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- EDTA-sodium salt : Species: Leuciscus idus (golden orfe)
LC50: > 500 mg/l/ 96 h
- 3-Mercapto-1,2,4-triazole : Species: Brachidanio rerio (zebra fish)
LC50: > 100 mg/l/ 96 h
- Ethanol : Species: Leuciscus idus (golden orfe)
LC50: 8,140 mg/l/ 48 h

Toxicity to daphnia

- EDTA-sodium salt : Species: Daphnia magna (water flea)
EC50: > 100 mg/l/ 48 h
- Ethanol : Species: Daphnia magna (water flea)
EC50: > 9,000 mg/l/ 48 h

Toxicity to algae

- Ethanol : Species: Scenedesmus quadricauda (algae)
EC5: 5,000 mg/l/ 7 d

Toxicity to bacteria

- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 h

This preparation does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

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

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

This product is not to be labelled as a dangerous substance or preparation as defined by EC Directives and transposed into national legislation.

16. OTHER INFORMATION

Further information

Text of R-phrases referred to under headings 2 and 3:

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R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.