

FX 88U

SAFETY DATA SHEET
 according to EC directive 93/112/EC
**CR5621b**

SUBID:00000005714

Version 6
Revision Date 10.08.2004

Print Date 11/09/04

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

Product name : CR5621b
 Use of the : Correction gel
 Substance/Preparation

Company/Undertaking Identification

Agfa-Gevaert Ltd.
 27 Great West Road
 TW8 9AX Brentford, Middlesex
 United Kingdom
 Tel. : +44 (0)20 8 231 4616
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Emergency telephone number (Belgium) : +32 3 4443333

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-pharse is listed in section 16.

Correction gel, mainly consisting of:

Hazardous components

| | | | | | |
|--------------------------|----------------|---------------------|------|---|------|
| • Benzyl alcohol | | Concentration [%] : | 25.0 | - | 30.0 |
| CAS-No. | : 100-51-6 | | | | |
| Index-No. | : 603-057-00-5 | | | | |
| EINECS-No. | : 202-859-9 | | | | |
| Symbol(s) | : Xn | | | | |
| R-pharse(s) | : R20/22 | | | | |
| • Ethanol | | Concentration [%] : | 10.0 | - | 20.0 |
| CAS-No. | : 64-17-5 | | | | |
| Index-No. | : 603-002-00-5 | | | | |
| EINECS-No. | : 200-578-6 | | | | |
| Symbol(s) | : F | | | | |
| R-pharse(s) | : R11 | | | | |
| • N-Methyl-2-pyrrolidone | | Concentration [%] : | 10.0 | - | 20.0 |
| CAS-No. | : 872-50-4 | | | | |
| Index-No. | : 606-021-00-7 | | | | |
| EINECS-No. | : 212-828-1 | | | | |
| Symbol(s) | : Xi | | | | |
| R-pharse(s) | : R36/38 | | | | |
| • Iodine | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 7553-56-2 | | | | |
| Index-No. | : 053-001-00-3 | | | | |
| EINECS-No. | : 231-442-4 | | | | |
| Symbol(s) | : Xn, N | | | | |
| R-pharse(s) | : R20/21, R50 | | | | |

Other

| | | | | | |
|--------------------|--|---------------------|------|---|------|
| • Potassium iodide | | Concentration [%] : | 10.0 | - | 20.0 |
|--------------------|--|---------------------|------|---|------|

- | | | | | |
|--------------------------|---------------------|------|---|------|
| • Water | Concentration [%] : | 10.0 | - | 20.0 |
| • Carboxymethylcellulose | Concentration [%] : | 1.0 | - | 5.0 |

3. HAZARDS IDENTIFICATION

EC-classification:

- | | | | |
|------------|---|--------|---|
| Symbol(s) | : | Xn | Harmful |
| R-phrases) | : | R10 | Flammable. |
| | | R20/22 | Harmful by inhalation and if swallowed. |
| | | R36/38 | Irritating to eyes and skin. |

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 | : | In case of fire, thermal decomposition with emission of hazardous fumes is possible (e.g. iodine). |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|--|
| Personal precautions | : | See section 8. |
| Environmental precautions | : | For waste disposal see section 13. |
| Additional advice | : | Wash away residues with plenty of water. |

7. HANDLING AND STORAGE

Handling

- | | | |
|---|---|--|
| Advice on protection against fire and explosion | : | Keep away from heat and sources of ignition. |
|---|---|--|

Storage

- | | | |
|---|---|--|
| Requirements for storage areas and containers | : | Keep container tightly closed. Protect from direct sunlight. |
| Advice on common storage | : | Store away from strong acids and strong oxidizing agents (e.g. sodium hypochlorite). |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

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| Components | CAS-No. | Values | Type | Revision date | Basis |
|------------------------|-----------|-------------------------|------|---------------|----------|
| Ethanol | 64-17-5 | 1,920 mg/m ³ | TWA | 2002 | EH40 OES |
| N-Methyl-2-pyrrolidone | 872-50-4 | 103 mg/m ³ | TWA | 2002 | EH40 OES |
| | | 309 mg/m ³ | STEL | 2002 | EH40 OES |
| Iodine | 7553-56-2 | 1.1 mg/m ³ | STEL | 2002 | EH40 OES |

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 breakthrough times > 60 min can be used. Avoid gloves made of: natural latex.
- Eye protection : Safety glasses.
- Hygiene measures : Observe normal precautions when handling chemicals. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : Gel
- Colour : Brown
- Odour : Alcoholic odour

Safety data

- pH : Not applicable
- Melting point/range : < 0 °C
- Boiling point/range : > 78 °C
- Flash point : 31 °C
- Lower explosion limit : Not applicable
- Upper explosion limit : Not applicable
- Relative density (20 °C) : 1.400
- Solubility/qualitative : Miscible with water at all ratios.
- Relative vapour density : Not applicable

10. STABILITY AND REACTIVITY

- Stability : The product is stable under normal conditions of storage and use.
- Conditions and materials to avoid : Avoid contact with strong oxidizing agents.
- Hazardous decomposition products : Iodine

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11. TOXICOLOGICAL INFORMATION

R-phrase(s) : R10 Flammable.
R20/22 Harmful by inhalation and if swallowed.
R36/38 Irritating to eyes and skin.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Benzyl alcohol : LD50 rat 1,230 mg/kg
- Ethanol : LD50 rat 7,060 mg/kg
- N-Methyl-2-pyrrolidone : LD50 rat 3,914 mg/kg
- Iodine : LD50 rat 670 mg/kg

Acute inhalation toxicity

- Ethanol : LC50 rat > 10,000 mg/l/ 4 h

Acute dermal toxicity

- Benzyl alcohol : LD50 rabbit 2,000 mg/kg
- Ethanol : LD50 rabbit 20,000 mg/kg
- N-Methyl-2-pyrrolidone : LD50 rabbit 8,000 mg/kg

Other information

Hazard labelling of this preparation: see section 15.

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

- Benzyl alcohol : Species: Pimephales promelas (fathead minnow)
Dose: 460.00 mg/l/ 96 h
- Ethanol : Species: Pimephales promelas (fathead minnow)
Dose: > 15,000.00 mg/l/ 96 h
- N-Methyl-2-pyrrolidone : Species: Leuciscus idus (golden orfe)
Dose: 4,000.00 mg/l/ 96 h

Toxicity to daphnia

- Benzyl alcohol : Species: Daphnia magna (water flea)
Dose: 380.00 mg/l/ 48 h
- N-Methyl-2-pyrrolidone : Species: Daphnia magna (water flea)
Dose: > 1,000.00 mg/l/ 24 h

Toxicity to algae

- Ethanol : Species: Scenedesmus quadricauda (algae)
Dose: 5,000.00 mg/l

Toxicity to bacteria

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- Benzyl alcohol : Species: Pseudomonas putida (bacteria)
Dose: 658.00 mg/l/ 48 h
- Ethanol : Species: Pseudomonas putida (bacteria)
Dose: 6,500.00 mg/l

13. DISPOSAL CONSIDERATIONS

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor. May be discharged to drain if local regulations permit.

For waste resulting from this product, it is recommended to use European Waste Code : 14 06 03 (other solvents and solvent mixtures).

14. TRANSPORT INFORMATION

ADR

UN-No : 1170
Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : III
Classification Code : F1
Label No : 3
Risk No. : 30

RID

UN-No : 1170
Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : III
Classification Code : F1
Label No : 3
Risk No. : 30

ADNR

UN-No : 1170
Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : III
Classification Code : F1
Label No : 3

IMO / IMDG

UN-No : 1170
Proper shipping name : ETHANOL SOLUTION
Class : 3
Packing group : III
Label No : 3
EmS : F-E, S-D

ICAO / IATA cargo aircraft only

UN-No : 1170
Proper shipping name : Ethanol solution

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Class : 3
Packing group : III
Label No : 3
Packing instruction : 310

ICAO / IATA passenger and cargo aircraft

UN-No : 1170
Proper shipping name : Ethanol solution
Class : 3
Packing group : III
Label No : 3
Packing instruction : 309

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

- CAS-No. : 100-51-6 Benzyl alcohol

| | | |
|-------------|----------|---|
| Symbol(s) | : Xn | Harmful |
| R-phrase(s) | : R10 | Flammable. |
| | : R20/22 | Harmful by inhalation and if swallowed. |
| | : R36/38 | Irritating to eyes and skin. |
| S-phrase(s) | : S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | : S41 | In case of fire and/or explosion do not breathe fumes. |

16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 1, 2, 4, 6, 8, 12, 13, 15

Further information

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

| | |
|--------|---|
| R10 | Flammable. |
| R11 | Highly flammable. |
| R20/21 | Harmful by inhalation and in contact with skin. |
| R20/22 | Harmful by inhalation and if swallowed. |
| R36/38 | Irritating to eyes and skin. |
| R50 | Very toxic to aquatic organisms. |

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

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.