

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



G5900b

SUBID : 000000007038

Version 7

Print Date 18.07.2008

Revision Date 17.07.2008

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

Identification of the substance/preparation

Product name : G5900b
Use of the Substance/Preparation : Photographic starter concentrate

Company/Undertaking Identification

Agfa-Gevaert Ltd.
Vantage West
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United Kingdom
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2. HAZARDS IDENTIFICATION

EC-classification:

R-phrases : R10 Flammable.

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-phrase is listed in section 16.

Aqueous photographic starter concentrate, mainly consisting of:

Hazardous components

- | | | | | | |
|----------------------------|-----------------|---------------------|------|---|------|
| • 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-phrase(s) | : R11 | | | | |
| • 2-Methyl-2,4-pentanediol | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 107-41-5 | | | | |
| Index-No. | : 603-053-00-3 | | | | |
| EINECS-No. | : 203-489-0 | | | | |
| Symbol(s) | : Xi | | | | |
| R-phrase(s) | : R36/38 | | | | |
| • Propan-2-ol | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 67-63-0 | | | | |
| Index-No. | : 603-117-00-0 | | | | |
| EINECS-No. | : 200-661-7 | | | | |
| Symbol(s) | : F, Xi | | | | |
| R-phrase(s) | : R11, R36, R67 | | | | |

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Other

- Polyglycol Concentration [%] : 1.0 - 5.0

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

Suitable extinguishing media : e.g. water, CO₂, foam, powder, sand.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : See section : Exposure controls / personel protection.
- Environmental precautions : For waste disposal see section 13.
- Methods for cleaning up : Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
- 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 oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Ethanol	64-17-5	1,920 mg/m ³	TWA	2005	EH40 WEL
2-Methyl-2,4-pentanediol	107-41-5	123 mg/m ³	TWA	2005	EH40 WEL
Propan-2-ol	67-63-0	123 mg/m ³	STEL	2005	EH40 WEL
		999 mg/m ³	TWA	2005	EH40 WEL
		1,250 mg/m ³	STEL	2005	EH40 WEL

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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. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

- Form : Liquid.
- Colour : Colourless.
- Odour : Alcoholic odour

Important Health Safety and Environmental Information

- Relative density (20 °C) : 0.983
- Solubility/qualitative : Miscible with water at all ratios.
- pH (25 °C) : 5.6
- Melting point/range : -14 °C
- Boiling point/range : 88 °C
- Flash point : 29 °C

10. STABILITY AND REACTIVITY

- Stability : The product is stable under normal conditions of storage and use.
- Conditions and materials to avoid : Avoid contact with oxidizing agents. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.
- Hazardous decomposition products : None

11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Ethanol : LD50 rat 7,060 mg/kg
- 2-Methyl-2,4-pentanediol : LD50 rat 3,700 mg/kg
- Propan-2-ol : LD50 rat 5,045 mg/kg

Acute inhalation toxicity

- Ethanol : LC50 rat $>$ 8,000 mg/l/ 4 h

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- 2-Methyl-2,4-pentanediol : LC50 rat > 0.3 mg/l/ 1 h
- Propan-2-ol : LC50 rat 46.5 mg/l/ 4 h

Acute dermal toxicity

- Ethanol : LDLO rabbit 20,000 mg/kg
- 2-Methyl-2,4-pentanediol : LD50 rabbit 7,875 mg/kg
- Propan-2-ol : LD50 rabbit 12,800 mg/kg

Other information

Hazard labelling of this preparation or substance : see section 15.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

- 2-Methyl-2,4-pentanediol : OECD 302B Inherent biodegradability > 70 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- Ethanol : Species: Leuciscus idus (golden orfe)
LC50: 8,140 mg/l/ 48 h
- 2-Methyl-2,4-pentanediol : Species: Pimephales promelas (fathead minnow)
LC50: 10,700 mg/l/ 96 h
- Propan-2-ol : Species: Pimephales promelas (fathead minnow)
LC50: 9,640 mg/l/ 96 h

Toxicity to daphnia

- Ethanol : Species: Daphnia magna (water flea)
EC50: > 9,000 mg/l/ 48 h
- 2-Methyl-2,4-pentanediol : Species: Daphnia magna (water flea)
EC50: 3,200 mg/l/ 48 h
- Propan-2-ol : Species: Daphnia magna (water flea)
EC50: 13,299 mg/l/ 48 h

Toxicity to algae

- Ethanol : Species: Scenedesmus quadricauda (algae)
EC5: 5,000 mg/l/ 7 d
- Propan-2-ol : Species: Scenedesmus quadricauda (algae)
EC5: 1,800 mg/l/ 8 d

Toxicity to bacteria

- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 h
- Propan-2-ol : Species: Pseudomonas putida (bacteria)
EC5: 1,050 mg/l/ 16 h

Further information on ecology

Biochemical oxygen demand : 320,000 mg/l
within 5 days (BOD5)

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Chemical Oxygen Demand : 470,000 mg/l
(COD)

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

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 : 20 01 17 (photochemicals).

14. TRANSPORT INFORMATION

ADR

UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3
Risk No. : 30

RID

UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3
Risk No. : 30

ADNR

UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3

IMO / IMDG

UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Labelling No. : 3
EmS : F-E, S-D

ICAO / IATA cargo aircraft only

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UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Labelling No. : 3
Packing instruction : 310

ICAO / IATA passenger and cargo aircraft

UN-No : 1987
Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Isopropyl alcohol)
Class : 3
Packing group : III
Labelling No. : 3
Packing instruction : 309

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

- CAS-No. : 64-17-5 Ethanol
67-63-0 Propan-2-ol

R-phrase(s) : R10 Flammable.

16. OTHER INFORMATION

Further information

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

R10 Flammable.
R11 Highly flammable.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R67 Vapours may cause drowsiness and dizziness.

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.