

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



G671c (READY FOR USE / 10%)

SUBID : 000000006416

Version 6

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 : G671c (READY FOR USE / 10%)

Use of the Substance/Preparation : Fountain solution

Company/Undertaking Identification

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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-phrase is listed in section 16.

Fountain solution, consisting mainly of:

Hazardous components

- | | | | | |
|----------------------------|---------------------|------------------------------|---|-----|
| • 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 | | |
| • 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-phrase(s) | : | R11 | | |
| • Methanol | Concentration [%] : | 0.0 | - | 0.1 |
| CAS-No. | : | 67-56-1 | | |
| Index-No. | : | 603-001-00-X | | |
| EINECS-No. | : | 200-659-6 | | |
| Symbol(s) | : | F, T | | |
| R-phrase(s) | : | R11, R23/24/25, R39/23/24/25 | | |

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Other

- Glycerine Concentration [%] : 1.0 - 5.0
- Silica Concentration [%] : 0.1 - 0.5

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

- Further information : Product is not combustible.

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 : No special protective measures against fire and explosion required.

Storage

- Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Glycerine	56-81-5	10 mg/m ³	TWA	2005	EH40 WEL
	107-41-5	123 mg/m ³	TWA	2005	EH40 WEL
2-Methyl-2,4-pentanediol		123 mg/m ³	STEL	2005	EH40 WEL
		1,920 mg/m ³	TWA	2005	EH40 WEL
Ethanol	64-17-5	260 mg/m ³	TWA	05 2001	EU ELV
Methanol	67-56-1	266 mg/m ³	TWA	2005	EH40 WEL

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		333 mg/m3	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 : Odourless.

Important Health Safety and Environmental Information

- Vapour pressure (20 °C) : 23.00 hPa
- Relative density (20 °C) : 1.000
- Solubility/qualitative : Miscible with water at all ratios.
- pH (25 °C) : 5.7
- 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.
- Hazardous decomposition products : None

11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- 2-Methyl-2,4-pentanediol : LD50 rat 3,700 mg/kg
- Ethanol : LD50 rat 7,060 mg/kg
- Methanol : LD50 rat 5,600 mg/kg

Acute inhalation toxicity

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

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- Ethanol : LC50 rat > 8,000 mg/l/ 4 h
- Methanol : LC50 rat 86.4 mg/l/ 4 h

Acute dermal toxicity

- 2-Methyl-2,4-pentanediol : LD50 rabbit 7,875 mg/kg
- Ethanol : LD0 rabbit 20,000 mg/kg
- Methanol : LD50 rabbit 15,800 mg/kg

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

- 2-Methyl-2,4-pentanediol : Species: Pimephales promelas (fathead minnow)
LC50: 10,700 mg/l/ 96 h
- Ethanol : Species: Leuciscus idus (golden orfe)
LC50: 8,140 mg/l/ 48 h
- Methanol : Species: Pimephales promelas (fathead minnow)
LC50: 28,100 mg/l/ 96 h

Toxicity to daphnia

- 2-Methyl-2,4-pentanediol : Species: Daphnia magna (water flea)
EC50: 3,200 mg/l/ 48 h
- Ethanol : Species: Daphnia magna (water flea)
EC50: > 9,000 mg/l/ 48 h
- Methanol : Species: Daphnia magna (water flea)
EC50: > 10,000 mg/l/ 48 h

Toxicity to algae

- Ethanol : Species: Scenedesmus quadricauda (algae)
EC5: 5,000 mg/l/ 7 d
- Methanol : Species: Scenedesmus quadricauda (algae)
EC5: 8,000 mg/l/ 8 d

Toxicity to bacteria

- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 h
- Methanol : Species: Pseudomonas putida (bacteria)
EC5: 6,600 mg/l/ 16 h

Further information on ecology

- Biochemical oxygen demand within 5 days (BOD5) : 29,160 mg/l
- Chemical Oxygen Demand (COD) : 83,330 mg/l

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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 : 07 03 04 (other organic solvents, washing liquids and mother liquors).

14. TRANSPORT INFORMATION

Not dangerous cargo. Keep separated from food- and drinkstuffs.

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:

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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.