



Safety Data Sheet

EN

Printed : 2002-05-01 Page : 001/005

Product name.....: G101c
 MSDS.....: 003467/07
 Previous MSDS.....: 003467/06

Validation date.....: 2002-03-14
 Date of previous issue.: 2001-12-14

1. Identification of the substance/preparation and of the company/undertaking

Product name.....: G101c

Company: Agfa-Gevaert Ltd
 27 Great West Road
 Brentford, MiddX. TW8 9AX
 Tel: 020 8231 4906
 Emergency Telephone No:0113 251 4000

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.

Aqueous photographic developer concentrate, mainly consisting of:

- Potassium carbonate 5.0 - 10.0 % by weight
 CAS-number.....: 584-08-7
 Danger symbols.....: Xi
 EC R-sentences.....: R36/38
- Hydroquinone 1.0 - 5.0 % by weight
 CAS-number.....: 123-31-9
 EC-number.....: 604-005-00-4
 Danger symbols.....: Xn N
 EC R-sentences.....: R22 R40 R41 R43 R50 R68
- Diethylene glycol 1.0 - 5.0 % by weight
 CAS-number.....: 111-46-6
 Danger symbols.....: Xn
 EC R-sentences.....: R22
- EDTA-sodium salt 0.5 - 1.0 % by weight
 CAS-number.....: 64-02-8
 Danger symbols.....: Xn
 EC R-sentences.....: R22 R36 R52/53
- 1-Phenyl-3-pyrazolidone 0.1 - 0.5 % by weight
 CAS-number.....: 92-43-3
 EC-number.....: 606-022-00-2
 Danger symbols.....: Xn N
 EC R-sentences.....: R22 R51/53



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- Water	60.0	-	80.0	% by weight
- Potassium sulphite	10.0	-	20.0	% by weight
- Sodium bromide	1.0	-	5.0	% by weight

3. Hazards identification

EC R-sentences.....: R36 Irritating to eyes.
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
R68 Possible risk of irreversible effects.

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. Seek medical attention.

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

Not relevant (product is not combustible).

6. Accidental release measures

Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Wash away residues with plenty of water. Prevent release into the drain, soil or surface water.

For waste disposal see Section 13.

7. Handling and storage

Keep container tightly closed. Protect from direct sunlight. No special protective measures against fire and explosion required. Store away from strong acids and strong oxidizing agents (e.g. sodium hypochlorite).

8. Exposure controls/personal protection

Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Observe normal precautions when handling chemicals. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.

Hand protection: Gloves resistant to chemicals (e.g. made of neoprene, rubber or vinyl).

Eye protection: Safety goggles.

- Hydroquinone

TLV - TWA values.....: ppm 2.000 mg/m3



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9. Physical and chemical properties

Form: Liquid
 Colour: Colourless to yellowish
 Odour: Odourless

Miscible with water at all ratios.
 Non-combustible (aqueous solution).

Density (20 °C).....: 1.2510
 Melting point.....: < 0 °C
 Boiling point.....: > 100 °C
 Vapour pressure.....: not available
 pH value (25 °C).....: 10.90
 Part. coeff. oct./water: not available
 Auto ignition temp.....: not applicable
 Flash point OC.....: not applicable
 Flash point CC.....: not applicable
 Explosion limit LEL.....: not applicable
 Explosion limit UEL.....: 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 acids and strong oxidizing agents (e.g. sodiumhypochlorite). Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.

Hazardous decomposition products:
 None

11. Toxicological information

EC R-sentences.....: R36 Irritating to eyes.
 R40 Limited evidence of a carcinogenic effect.
 R43 May cause sensitisation by skin contact.
 R68 Possible risk of irreversible effects.

There is insufficient scientific evidence for classifying hydroquinone as a suspected carcinogenic or mutagenic substance in humans. Epidemiologic studies over a period of 48 years, wherein -during manufacturing and use of hydroquinone- more than 800 human individuals were daily exposed at significant airborne concentrations (greater than the occupational threshold of 2 mg/m³), demonstrated that such exposure is not associated with the induction of cancer in humans.

Hazard labelling of this preparation: see Section 15.

Toxicologic data specific for individual ingredients in their pure state:

- Potassium carbonate

LD50 oral rat : 1,870 mg/kg

- Hydroquinone

LD50 oral rat : 320 mg/kg
 LD50 dermal cat : 5,970 mg/kg



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- Diethylene glycol
 - LC50 inhalation rat
 - LD50 oral rat > 5 mg/l/ 4h
 - LD50 dermal rabbit 12,565 mg/kg
 - 11,890 mg/kg
- EDTA-sodium salt
 - LD50 oral rat > 1,000 mg/kg
- 1-Phenyl-3-pyrazolidone
 - LD50 oral rat > 200 mg/kg
 - LD50 dermal guinea pig > 1,000 mg/kg

12. Ecological information

BOD 5.....: not available
COD.....: not available
Total dissolved subst...: not available
pH value (25 °C).....: 10.90

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.

- Hydroquinone
 - Aquatic toxicity.....: 0.14 mg/l/ 96h Pimephales promelas(fath.min.)
- Diethylene glycol
 - Aquatic toxicity.....: > 10,000.00 mg/l/ 24h Daphnia magna (water flea)
- EDTA-sodium salt
 - Aquatic toxicity.....: 540.00 mg/l/ 96h Lepomis macrochirus(bluegill.)
- 1-Phenyl-3-pyrazolidone
 - Aquatic toxicity.....: 5.00 mg/l/ 96h Pimephales promelas(fath.min.)

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. May be discharged to drain if local regulations permit.

When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor. For waste resulting from this product, it is recommended to use European Waste Code 09 01 01 (water-based developer and activator solutions).



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14. Transport information

- Transport information: ADR, ADNR, RID
Not restricted.
- Transport information: IMO/ IMDG
Not restricted.
- Transport information: ICAO /IATA cargo aircraft only
Not restricted.
- Transport information: ICAO /IATA passenger and cargo aircraft
Not restricted.

15. Regulatory information

Labelling.....: Contains hydroquinone
Danger symbols.....: Xn Harmful
EC R-sentences.....: R36 Irritating to eyes.
R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitisation by skin contact.
R68 Possible risk of irreversible effects.
EC S-sentences.....: S26 In case of contact with eyes, rinse immediately with
plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and
eye/face protection.

16. Other information

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.

This Safety Data Sheet is compiled in accordance with European Directives.

Section(s) changed compared to the previous issue: 12