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Printed : 2004-01-27 Page : 001/005

Product name.....: L5000b LITHOSTAR ULTRA DEVELOPER	Validation date.....: 2004-01-26
SDS.....: 007430/06	Date of previous issue.: 2003-10-30
Previous SDS.....: 007430/05	

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

Product name.....: L5000b LITHOSTAR ULTRA DEVELOPER

Use of the substance/preparation:

Offset plate developer solution

Company/undertaking:

Agfa-Gevaert Ltd
 27 Great West Road
 Brentford, MiddX. TW8 9AX
 Telephone No : 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. Full text of each relevant R-phrase is listed in Section 16.

Aqueous offset plate developer solution, mainly consisting of:

- Hydroquinone	1.0 - 5.0 % by weight
CAS-number.....: 123-31-9	
EC-number.....: 604-005-00-4	
EINECS/ELINCS-number...: 204-617-8	
Danger symbols.....: Xn N	
EC R-sentences.....: R22 R40 R41 R43 R50 R68	
- 1-Phenyl-4-methyl-3-pyrazolidone	0.1 - 0.5 % by weight
CAS-number.....: 2654-57-1	
EINECS/ELINCS-number...: 220-180-6	
Danger symbols.....: Xn N	
EC R-sentences.....: R22 R43 R51/53	
- Water	80.0 - 100.0 % by weight
- Sodium sulphite	10.0 - 20.0 % by weight
- Potassium aluminum sulphate	1.0 - 5.0 % by weight
- Sodium thiosulphate	0.5 - 1.0 % by weight

3. Hazards identification

* EC-classification:

Danger symbols.....: Xn Harmful
 EC R-sentences.....: R40 Limited evidence of a carcinogenic effect.
 R43 May cause sensitization by skin contact.
 R68 Possible risk of irreversible effects.

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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

Not relevant (product is not combustible).

In case of fire, thermal decomposition with emission of hazardous fumes is possible (e.g. SO₂).

6. Accidental release measures

Personal protection measures: see Section 8.

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. For waste disposal see Section 13.

Wash away residues with plenty of water.

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

* Exposure limit values:

- Hydroquinone

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

* Exposure controls:

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: Nitrile gloves resistant to chemicals
Thickness of material: >= 0.45 mm
Breakthrough time: >= 480 min.

Eye protection: Safety glasses.

9. Physical and chemical properties

Form: Liquid
Colour: Colourless
Odour: Odourless

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

Density (20 °C).....: 1.1440
Melting point.....: < 0 °C
Boiling point.....: > 100 °C
Vapour pressure.....: 2,300 Pa at 20 °C
pH value (25 °C).....: 12.70
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:

Sulphur dioxide

11. Toxicological information

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

There is insufficient scientific evidence for classifying hydroquinone as a suspected carcino- 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:

- Hydroquinone

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

- 1-Phenyl-4-methyl-3-pyrazolidone

LD50 oral rat	627 mg/kg
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12. Ecological information

BOD 5.....: not available
COD.....: not available
Total dissolved subst...: not available
pH value (25 °C).....: 12.70

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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.)

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 02 (water-based offset plate developer solutions).

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 and 1-phenyl-4-methyl-3-pyrazolidone

Danger symbols.....: Xn Harmful

EC R-sentences.....: R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitization by skin contact.

R68 Possible risk of irreversible effects.

EC S-sentences.....: 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.



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

Section(s) changed compared to the previous issue: 4, 8, 12, 13, 14, 15

Full text of relevant R-phrases:

R22 Harmful if swallowed.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R50 Very toxic to aquatic organisms.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 Possible risk of irreversible effects.