

LB6WA

SAFETY DATA SHEET

according to EC directive 93/112/EC

**LITHOSTAR COPYRAPID DELETION**

SUBID:000000003567

Version 4

Print Date 10/09/04

Revision Date 10.08.2004

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

Product name : LITHOSTAR COPYRAPID DELETION
 Use of the : Correction pen
 Substance/Preparation

Company/Undertaking Identification

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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.

This correction pen mainly consists of a plastic housing enclosing a porous wick, which retains a very small quantity of corrector liquid. When not in use, the pen is closed with a protective cap. Labelling and hazard information in this Safety Data Sheet refers to the pure corrector liquid as retained in the wick.

Hazardous components

• N-Methyl-2-pyrrolidone		Concentration [%] :	20.0	-	30.0
CAS-No.	: 872-50-4				
Index-No.	: 606-021-00-7				
EINECS-No.	: 212-828-1				
Symbol(s)	: Xi				
R-phrase(s)	: R36/38				
• Iodine		Concentration [%] :	5.0	-	10.0
CAS-No.	: 7553-56-2				
Index-No.	: 053-001-00-3				
EINECS-No.	: 231-442-4				
Symbol(s)	: Xn, N				
R-phrase(s)	: R20/21, R50				

Other

• Potassium iodide	Concentration [%] :	30.0	-	40.0
• Water	Concentration [%] :	20.0	-	30.0

3. HAZARDS IDENTIFICATION

In normal conditions of storage, transport and use, the pencil will not cause any special health or safety hazard.

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EC-classification:

Symbol(s) : Xi Irritant
R-phrases) : 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 : Combustion of one pencil will not cause a major problem to health, safety and to the environment. When burning large amounts of pencils, hazardous fumes can be set free. Their composition is depending on the conditions of the combustion process and will not substantially differ from that resulting from merely burning plastic housings and caps of such pencils.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : See section 8.
Additional advice : Wash away residues with plenty of water.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : In normal conditions of storage, transport and use, the liquid will not leak from the pencil.
Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

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

Components	CAS-No.	Values	Type	Revision date	Basis
N-Methyl-2-pyrrolidone	872-50-4	103 mg/m3	TWA	2002	EH40 OES
		309 mg/m3	STEL	2002	EH40 OES
Iodine	7553-56-2	1.1 mg/m3	STEL	2002	EH40 OES

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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. Don't wear the correction pen on your body. Avoid that the tip of the wick comes into contact with the eyes and the skin. Always apply the protective cap to the pen, when the latter is not in use. Unproper handling, such as licking the wick, inhaling the corrector liquid or breaking and opening the pen, so as to set free the wick, is to be avoided. Keep away from foodstuffs, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form : Liquid
Colour : Dark brown
Odour : Practically odourless

Safety data

- Melting point/range : -10 - 0 °C
Boiling point/range : 95 - 105 °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.

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.

11. TOXICOLOGICAL INFORMATION

R-phrases : R36/38 Irritating to eyes and skin.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

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- N-Methyl-2-pyrrolidone : LD50 rat 3,914 mg/kg
- Iodine : LD50 rat 670 mg/kg

Acute dermal toxicity

- N-Methyl-2-pyrrolidone : LD50 rabbit 8,000 mg/kg

Other information

Hazard labelling of the corrector liquid: 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

- N-Methyl-2-pyrrolidone : Species: Leuciscus idus (golden orfe)
Dose: 4,000.00 mg/l/ 96 h

Toxicity to daphnia

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

13. DISPOSAL CONSIDERATIONS

Used correction pencils are considered industrial waste. Refer to local provisions and regulations on disposal of such waste.

14. TRANSPORT INFORMATION

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

- CAS-No. : 872-50-4 N-Methyl-2-pyrrolidone

Symbol(s) : Xi Irritant
R-phrases) : R36/38 Irritating to eyes and skin.
S-phrase(s) : S41 In case of fire and/or explosion do not breathe fumes.

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16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 1, 2, 3, 4, 5, 6, 7, 8, 9, 12, 13

Further information

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

R20/21	Harmful by inhalation and in contact with skin.
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.

This product is not manufactured by Agfa. The information disclosed in this Safety Data Sheet has been provided by the manufacturer.

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.