

SAFETY DATA SHEET

Kodak Polychrome Graphics
A Subsidiary of Kodak

C51/52 Correction Pen for Positive Plates

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

Identification of the substance or preparation

Product name : C51/52 Correction Pen for Positive Plates
Nr. SDS : 00052
Date of issue : 2006-08-14.
Catalogue number : 0148817; 0130559
Version : 5.12
Area of application : Industrial applications. Graphic Arts product. Correction material / agent.

Company/undertaking identification

Supplier : Kodak Polychrome Graphics Europe S.A.
 8, Avenue François Arago
 Zone Industrielle BP 116
 92164 Antony Cedex
 France

Emergency telephone number : **Emergency telephone number: Int. + 31.30.2748888. (Dutch National Poison Information Centre) Only for physicians and medical specialists in case of an accidental poisoning.**

For other EHS Information : Kodak Polychrome Graphics EHS-Affairs EU/AF/AS/AU
 P.O. Box 56, 3750 GB Bunschoten, The Netherlands
 Phone: Int. +31 33 299 88 80
 Fax: Int. +31 33 299 88 89
 E-mail: EHS-EU@kpgraphics.com

Sale Rep :
 Kodak Polychrome Graphics Ltd.
 Axis 1, Rhodes Way,
 Watford Herts, WD2 4FD, Great Britain
 Phone: +44 1923 23 66 66
 Fax: +44 1923 24 47 14

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Symbol / R-Phrases
1-Methyl-2-pyrrolidone	872-50-4	40-70	212-828-1	Xi; R36/38
Water	7732-18-5	10-15	231-791-2	Not classified.
Phosphoric acid	7664-38-2	5-10	231-633-2	C; R34
Dimethylsulphoxide	67-68-5	1-5	200-664-3	Not classified.
Gum Arabic	9000-01-5	1-5	232-519-5	Not classified.
Polyethylene glycol	25322-68-3	1-5	500-038-2	Not classified.
Hexafluorosilicic acid	16961-83-4	1-5	241-034-8	C; R34

See section 16 for the full text of the R Phrases declared above

Within the present knowledge of the supplier, this product does not contain any other hazardous ingredients in quantities requiring reporting in this section, in accordance with EU regulations or National regulations.

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

Main hazards : Irritant
Human health hazards : Irritating to eyes and skin.
Environmental hazards : Not applicable.
Physical/chemical hazards : Not applicable.
Classification : Xi; R36/38

4. First aid measures

First aid measures

- Inhalation** : Allow the victim to rest in a well-ventilated area. If irritation persists, get medical attention.
- Ingestion** : Do not induce vomiting. Have conscious person drink several glasses of water or milk. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before reusing.
- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water.
- Special exposure hazards** : No specific hazard.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...). nitrogen oxides (NO, NO₂ etc.)
- Special protective equipment for fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

- Personal precautions** : Splash goggles. Lab coat. Latex gloves. In case of insufficient ventilation, wear suitable respiratory equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : Absorb with an inert material and place in an appropriate waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

7. Handling and storage

- Handling** : Do not ingest. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep pens tightly closed. Keep away from heat.
- Packaging materials**
- Recommended** : -

8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe	
Phosphoric acid	EU OEL (Europe, 2/2006). STEL: 2 mg/m ³ 15 minute/minutes. TWA: 1 mg/m ³ 8 hour/hours.
Hexafluorosilicic acid	EU OEL (Europe, 2/2006). TWA: 2.5 mg/m ³ 8 hour/hours.
United Kingdom (UK)	
1-Methyl-2-pyrrolidone	EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 309 mg/m ³ 15 minute/minutes. TWA: 103 mg/m ³ 8 hour/hours.
Phosphoric acid	EH40-WEL (United Kingdom (UK), 1/2005). STEL: 2 mg/m ³ 15 minute/minutes. TWA: 1 mg/m ³ 8 hour/hours.
Hexafluorosilicic acid	EH40-WEL (United Kingdom (UK), 1/2005). TWA: 2.5 mg/m ³ 8 hour/hours. Form: As F

Exposure controls

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Occupational exposure controls	: Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Ensure that eyewash stations and safety showers are close to the workstation location.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.
Hand protection	: Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: natural latex (thickness \geq 0.75 mm, breakthrough time > 10 min). Avoid gloves made of: nitrile rubber, neoprene.
Eye protection	: Splash goggles
Skin protection	: Lab coat

9. Physical and chemical properties

Physical state	: Liquid.
Color	: Red.
Odor	: Aromatic.
pH	: 1.95 [Acidic.]
Boiling point	: Not available.
Melting point	: Not available.
Relative density	: 1.1074 g/cm ³
Vapor pressure	: Not available.
Vapor density	: Not available.
Flammability	: Non-flammable.
Solubility	: Easily soluble in cold water.
VOC	: 808 (g/l).

10. Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: Not available.
Materials to avoid	: Incompatible with strong oxidizing agents. Incompatible with some alkalis.
Hazardous decomposition products	: These products are carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ ...). nitrogen oxides (NO, NO ₂ etc.)

11. Toxicological information

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
Eye contact	: Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching.

Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
1-Methyl-2-pyrrolidone	LD50	3914 mg/kg	Oral	Rat
	LD50	8000 mg/kg	Dermal	Rabbit
	LC50	>5.1 mg/l (4 hour/hours)	Inhalation	Rat
Phosphoric acid	LD50	1530 mg/kg	Oral	Rat
	LD50	2740 mg/kg	Dermal	Rabbit
Hexafluorosilicic acid	LD50	430 mg/kg	Oral	Rat

Potential chronic health effects

<u>Ingredient name</u>	<u>Carcinogenic effects</u>	<u>Mutagenic effects</u>	<u>Developmental toxicity</u>	<u>Impairs fertility</u>
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Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

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- Skin** : Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Other adverse effects** : Not available.

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
1-Methyl-2-pyrrolidone	Golden Orfe (LC50)	96 hour/hours	4000 mg/l
	Daphnia (EC50)	48 hour/hours	5000 mg/l
Phosphoric acid	Fish (LC50)	96 hour/hours	100 mg/l

Other ecological information

Persistence/degradability

<u>Ingredient name</u>	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>
<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>

<u>Ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>

- Mobility** : Not available.
- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Waste classification** : This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.
- European waste catalogue (EWC)** : 09 01 99 + 15 01 10*

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
ADR/RID Class	Not regulated.			-		-
IMDG Class	Not regulated.			-		-
IATA-DGR Class	Not regulated.			-		-

15. Regulatory information

EU Regulations

Hazard symbol/symbols :



Irritant

- R-Phrases** : R36/38- Irritating to eyes and skin.
- S-Phrases** : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R34- Causes burns.
R36/38- Irritating to eyes and skin.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : C - Corrosive
Xi - Irritant

Revision comments : Section : 7; 8; 11; 16

History

Date of printing : 2006-08-14.

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Version : 5.12

Prepared by : Kodak Polychrome Graphics, EHS-EU/AF/AS/AU, Bunschoten, NL

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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