Conforms to 91/155/EEC - 2001/58/EC

SAFETY DATA SHEET

Kodak Polychrome Graphics
A Subsidiary of Kodak

243 Correction Fluid for Positive Plates

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

Identification of the substance or preparation

Product name : 243 Correction Fluid for Positive Plates

Nr. SDS : 70032

Date of issue : **2006-10-09.**

Catalogue number : 9289281; 9289273; 9056631; 9056607; 9056599; 9046327; 9046319

Version : **4.2**

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.
Silicon dioxide, amorphous	7631-86-9	5-10	231-545-4	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 immediately.

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

5. Fire-fighting measures

Extinguishing media

Suitable : Use dry chemical, CO_2, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards : No specific hazard.

Hazardous thermal decomposition products : These products are carbon oxides (CO, CO_2), nitrogen oxides (NO, NO_2...). sulfur oxides (SO_2, SO_3 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 with a dilute sodium carbonate solution. 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. Use only with adequate ventilation. Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Prevent from freezing.

Packaging materials

Recommended : Use original container.

8. Exposure controls/personal protection

Ingredient name	Occupational exposure limits
Europe	
Phosphoric acid	**EU OEL (Europe, 2/2006).** STEL: 2 mg/m³ 15 minute/minutes. TWA: 1 mg/m³ 8 hour/hours.
Hexafluorosilicic acid	**EU OEL (Europe, 2/2006).** TWA: 2.5 mg/m³ 8 hour/hours.
United Kingdom (UK)	
1-Methyl-2-pyrrolidone	**EH40-WEL (United Kingdom (UK), 1/2005). Skin** STEL: 309 mg/m³ 15 minute/minutes. TWA: 103 mg/m³ 8 hour/hours.
Silicon dioxide, amorphous	**EH40-WEL (United Kingdom (UK), 1/2005).** TWA: 6 mg/m³ 8 hour/hours. Form: Inhalable fraction TWA: 0.3 mg/m³ 8 hour/hours. Form: Respirable fraction
Phosphoric acid	**EH40-WEL (United Kingdom (UK), 1/2005).** STEL: 2 mg/m³ 15 minute/minutes. TWA: 1 mg/m³ 8 hour/hours.
Hexafluorosilicic acid	**EH40-WEL (United Kingdom (UK), 1/2005).** TWA: 2.5 mg/m³ 8 hour/hours. Form: As F

Exposure controls

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 >= 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 : 1.8 [Acidic.]

Boiling point : >100°C

Melting point : <0°C

Specific gravity : 1.1 (Water = 1)

Vapor pressure : Not available.

Vapor density : Not available.

Flammability : Combustible liquid

Flash point : Open cup: 93°C

Explosion limits : Lower: 2.2% Upper: 12.2%

Auto-ignition temperature : 343°C

Solubility : Easily soluble in cold water.

VOC : 746 (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), nitrogen oxides (NO, NO_2...). sulfur oxides (SO_2, SO_3 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

Ingredient name	Test	Result	Route	Species
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

Ingredient name	Carcinogenic effects	Mutagenic effects	Developmental toxicity	Impairs fertility

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.

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

Ingredient name	Species	Period	Result
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

Ingredient name	BOD_5	COD	ThOD
1-Methyl-2-pyrrolidone	1.1 g O_2/g	1.6 g O_2/g	-

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
1-Methyl-2-pyrrolidone	-	-	Readily

Bioaccumulative potential

Ingredient name	$LogP_{ow}$	BCF	Potential
1-Methyl-2-pyrrolidone	Not available.	Not available.	Not available.

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	UN1760	CORROSIVE LIQUID, N.O.S. (Hexafluorosilicic acid, Phosphoric acid)	8	III		CEFIC Tremcard 80GC9-III
IMDG Class	UN1760	CORROSIVE LIQUID, N.O.S. (hexafluorosilicic acid, phosphoric acid)	8	III		Emergency schedules (EmS) F-A, S-B
IATA-DGR Class	UN1760	CORROSIVE LIQUID, N.O.S. (hexafluorosilicic acid, phosphoric acid)	8	III		

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; 12; 16

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

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