

SAFETY DATA SHEET

Kodak Polychrome Graphics
A Subsidiary of Kodak

956 negative plate developer

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

Identification of the substance or preparation

Product name : 956 negative plate developer **Nr. SDS** : 30022
Date of issue : 2006-09-27.
Catalogue number : 5270475; 5270467; 5270459 **Version** : 4.2
Area of application : Industrial applications. Graphic Arts product. Plate developer.

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
Water	7732-18-5	70-100	231-791-2	Not classified.
Glycerol	56-81-5	1-5	200-289-5	Not classified.
2-Phenoxyethanol	122-99-6	1-5	204-589-7	Xn; R22 Xi; R36
Sodium methylphthalene sulfonate	26264-58-4	1-5	247-564-6	Xi; R36
Sodium octyl sulfate	142-31-4	1-5	205-535-5	Xi; R38, R41
Diethanolamine	111-42-2	1-5	203-868-0	Xn; R22, R48/22 Xi; R38, R41

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 9.

3. Hazards identification

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

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.
- Skin contact** : After contact with skin, wash immediately with plenty of water. If irritation persists, get medical attention.
- 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. If irritation persists, 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** : None.
- 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. Nitrile 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. 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. Avoid prolonged or repeated contact with skin. Use 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

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Europe	
Glycerol	ACGIH TLV (United States, 1/2006). TWA: 10 mg/m ³ 8 hour/hours. Form: Mist
Diethanolamine	ACGIH TLV (United States, 1/2006). Skin TWA: 2 mg/m ³ 8 hour/hours.
United Kingdom (UK)	
Glycerol	EH40-WEL (United Kingdom (UK), 1/2005). TWA: 10 mg/m ³ 8 hour/hours.
Diethanolamine	EH40-WEL (United Kingdom (UK), 1/2005). TWA: 13 mg/m ³ 8 hour/hours.

Exposure controls

- Occupational exposure controls** : Ventilation is normally required when handling or using this product. 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.

956 negative plate developer

- 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 rubber.
- Eye protection** : Splash goggles.
- Skin protection** : Lab coat.

9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Brown.
- Odor** : Solvent. (Slight.)
- pH** : 10 [Basic.]
- Boiling point** : >100°C
- Melting point** : <0°C
- Specific gravity** : 1.03 (Water = 1)
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Flammability** : Non-flammable.
- Solubility** : Easily soluble in cold water.
- VOC** : 0.19 (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 strong acids.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...). nitrogen oxides (NO, NO₂ 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** : No known significant effects or critical hazards.
- 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>
Glycerol	LD50	12600 mg/kg	Oral	Rat
	LD50	>10000 mg/kg	Dermal	Rabbit
2-Phenoxyethanol	LD50	1260 mg/kg	Oral	Rat
	LD50	5000 mg/kg	Dermal	Rabbit
Sodium methyl-naphthalene sulfonate	LD50	5620 mg/kg	Oral	Rat
Sodium octyl sulfate	LD50	3200 mg/kg	Oral	Rat
Diethanolamine	LD50	620 mg/kg	Oral	Rat
	LD50	12200 mg/kg	Dermal	Rabbit

Potential chronic health effects

<u>Ingredient name</u>	<u>Carcinogenic effects</u>	<u>Mutagenic effects</u>	<u>Developmental toxicity</u>	<u>Impairs fertility</u>
------------------------	-----------------------------	--------------------------	-------------------------------	--------------------------

- 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.

956 negative plate developer

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

12. Ecological information

Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Glycerol	Fish (LC50)	96 hour/hours	54000 mg/l
2-Phenoxyethanol	Fathead minnow (Pimepheles promelas) (LC50)	96 hour/hours	347 mg/l
Diethanolamine	Daphnia (EC50)	48 hour/hours	460 mg/l
	Fish (LC50)	96 hour/hours	1480 mg/l
	Daphnia (EC50)	72 hour/hours	55 mg/l

Other ecological information

Persistence/degradability

<u>Ingredient name</u>	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>
Glycerol	0.87 g O ₂ /g	1.16 g O ₂ /g	1.217 g O ₂ /g
2-Phenoxyethanol			
Diethanolamine	0.03 g O ₂ /g	1.52 g O ₂ /g	2.13 g O ₂ /g

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Glycerol	-	-	Readily
2-Phenoxyethanol	-	-	Readily
Diethanolamine	-	-	Readily

Bioaccumulative potential

<u>Ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
Glycerol	-2.6		low
2-Phenoxyethanol	1		low
Diethanolamine	-1.43		low

- 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 02* + 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- Irritating to eyes.

- 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)

- : R22- Harmful if swallowed.
- : R48/22- Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- : R36- Irritating to eyes.
- : R38- Irritating to skin.
- : R41- Risk of serious damage to eyes.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)

- : Xn - Harmful
- : Xi - Irritant

Revision comments : Section : 7; 8; 9; 12; 16

History

Date of printing : 2007-05-02.

Date of issue : 2006-09-27.

Date of previous issue : 2006-02-09.

Version : 4.2

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.

FOR INDUSTRIAL USE ONLY