

# SAFETY DATA SHEET

Kodak Polychrome Graphics  
A Subsidiary of Kodak

## 446 Plate Cleaner RNT

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

#### Identification of the substance or preparation

**Product name** : 446 Plate Cleaner RNT **Nr. SDS** : 60042  
**Date of issue** : 2006-02-14.  
**Catalogue number** : 9046426 **Version** : 4.11  
**Area of application** : Industrial applications. Graphic Arts product. Plate cleaner.

#### 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	40-70	231-791-2	Not classified.
C9-12-Isoalkanes	90622-57-4	5-10	292-459-0	R10 Xn; R65 R66 R53
Diatomaceous earth, calcined	68855-54-9	5-10	272-489-0	Xn; R68/20
Dextrin	9004-53-9	5-10	232-675-4	Not classified.
Citric acid	77-92-9	1-5	201-069-1	Xi; R36
Sulfuric acid	7664-93-9	1-5	231-639-5	C; R35
Disodium hydrogen phosphate	7558-79-4	1-5	231-448-7	Not classified.
4-Chloro-3-methylphenol, sodium salt	15733-22-9	0.1-1	239-825-8	Xn; R21/22 Xi; R41 R43 N; R50

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

<b>Main hazards</b>	: Harmful
<b>Human health hazards</b>	: Harmful: may cause lung damage if swallowed.
<b>Environmental hazards</b>	: Not applicable.
<b>Physical/chemical hazards</b>	: Flammable.
<b>Classification</b>	: R10 Xn; R65

### 4. First aid measures

#### First aid measures

<b>Inhalation</b>	: Allow the victim to rest in a well-ventilated area. If irritation persists, get medical attention.
<b>Ingestion</b>	: Do not induce vomiting. Have conscious person drink several glasses of water or milk. Get medical attention immediately.
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water. If irritation persists, get medical attention.
<b>Eye contact</b>	: 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

<b>Suitable</b>	: Use DRY chemicals, CO <sub>2</sub> , water spray or foam.
<b>Not suitable</b>	: Do not use water jet.
<b>Special exposure hazards</b>	: May emit toxic fumes under fire conditions.
<b>Hazardous thermal decomposition products</b>	: These products are carbon oxides (CO, CO <sub>2</sub> ), sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...). nitrogen oxides (NO, NO <sub>2</sub> etc.), halogenated compounds
<b>Special protective equipment for fire-fighters</b>	: Be sure to use an approved/certified respirator or equivalent.

### 6. Accidental release measures

<b>Personal precautions</b>	: Splash goggles. Lab coat. Latex gloves. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Environmental precautions</b>	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
<b>Methods for cleaning up</b>	: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### 7. Handling and storage

<b>Handling</b>	: Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid prolonged contact with eyes, skin and clothing. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Wash thoroughly after handling.
<b>Storage</b>	: Flammable materials should be stored in a separate safety storage cabinet or room. Keep container tightly closed. Keep container in a cool, well-ventilated area. Prevent from freezing.
<b><u>Packaging materials</u></b>	
<b>Recommended</b>	: Use original container.

### 8. Exposure controls/personal protection

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<b>Europe</b> Sulfuric acid	<b>ACGIH TLV (United States, 1/2005).</b> TWA: 0.2 mg/m <sup>3</sup> 8 hour/hours.
<b>United Kingdom (UK)</b> Diatomaceous earth, calcined	<b>EH40-WEL (United Kingdom (UK), 1/2005).</b> TWA: 6 mg/m <sup>3</sup> 8 hour/hours. Form: Inhalable fraction TWA: 2.4 mg/m <sup>3</sup> 8 hour/hours. Form: Respirable fraction

**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 work-station location.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- 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** : Colorless.
- Odor** : Petroleum-like. (Slight.)
- pH** : Not applicable.
- Boiling point** : Not available.
- Melting point** : Not available.
- Relative density** : 1.135
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Flammability** : FLAMMABLE.
- Flash point** : Closed cup: 41°C (105.8°F).
- Solubility** : Miscible in water.

**10. Stability and reactivity**

- Stability** : The product is stable.
- Conditions to avoid** : Not available.
- Materials to avoid** : Incompatible with strong oxidizing agents.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...). nitrogen oxides (NO, NO<sub>2</sub> etc.), halogenated compounds

**11. Toxicological information****Potential acute health effects**

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Aspiration hazard if swallowed. Can enter lungs and cause damage.
- Skin contact** : No known significant effects or critical hazards.
- Eye contact** : No known significant effects or critical hazards.

**Acute toxicity**

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
C9-12-Isoalkanes	LD50	>10000 mg/kg	Oral	Rat
	LD50	>3000 mg/kg	Dermal	Rabbit
	LC50	>20 mg/l (4 hour/hours)	Inhalation	Rat
Citric acid	LD50	>5000 mg/kg	Oral	Rat
Sulfuric acid	LD50	2140 mg/kg	Oral	Rat
4-Chloro-3-methylphenol, sodium salt	LD50	500 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 effects</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.

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- Ingestion** : No known significant effects or critical hazards.  
**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>
Citric acid	Daphnia (EC50)	48 hour/hours	1535 mg/l
Sulfuric acid	Fish (LC50)	96 hour/hours	1990 mg/l

### Other ecological information

#### Persistence/degradability

<u>Ingredient name</u>	<u>BOD<sub>5</sub></u>	<u>COD</u>	<u>ThOD</u>
Citric acid	0.42 g O <sub>2</sub> /g	-	0.686 g O <sub>2</sub> /g

<u>Ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Citric acid	Not available.	Not available.	Not available.

#### Bioaccumulative potential

<u>Ingredient name</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
Citric acid	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
<b>ADR/RID Class</b>	UN1993	FLAMMABLE LIQUID, N.O.S. (C9-12-Isoalkanes)	3	III		<b>CEPIC Tremcard</b> 30GF1-III
<b>IMDG Class</b>	UN1993	FLAMMABLE LIQUID, N.O.S. (c9-12-isoalkanes)	3	III		<b>Emergency schedules (EmS)</b> F-E, S-E
<b>IATA-DGR Class</b>	UN1993	FLAMMABLE LIQUID, N.O.S. (c9-12-isoalkanes)	3	III		-

## 15. Regulatory information

### EU Regulations

**Hazard symbol/symbols** :



Harmful

- R-Phrases** : R10- Flammable.  
R65- Harmful: may cause lung damage if swallowed.
- Contains** : C9-12-Isoalkanes

## 16. Other information

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

- : R10- Flammable.
- R21/22- Harmful in contact with skin and if swallowed.
- R65- Harmful: may cause lung damage if swallowed.
- R68/20- Harmful: possible risk of irreversible effects through inhalation.
- R35- Causes severe burns.
- R36- Irritating to eyes.
- R41- Risk of serious damage to eyes.
- R43- May cause sensitization by skin contact.
- R66- Repeated exposure may cause skin dryness or cracking.
- R50- Very toxic to aquatic organisms.
- R53- May cause long-term adverse effects in the aquatic environment.

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

- : C - Corrosive
- Xn - Harmful
- Xi - Irritant
- N - Dangerous for the environment.

**Revision comments** : Section : 8; 16

### History

**Date of printing** : 2006-02-14.

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**Version** : 4.11

**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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