

# Material Safety Data Sheet

**Kodak Polychrome**  
GRAPHICS

## PR-500 Plate Cleaner / Scratch Remover

### 1. Chemical Product and Company Identification

Common Name : PR-500 Plate Cleaner / Scratch Remover

Synonym : Not applicable.

Catalog number : 0452086

Area of Application : Industrial applications. Graphic Arts Imaging.

Supplier : Kodak Polychrome Graphics  
401 Merrit 7  
Norwalk, CT 06851  
USA  
Tel. (203) 845-7000

Emergency telephone number : In Case of Emergency (medical/roadside) (24hrs)

For other EHS Information : Kodak Polychrome Graphics, Environmental, Health, & Safety Department;  
11465 Johns Creek Parkway, #260, Duluth, GA 30097; USA  
Phone: 1-877-574-7274, Additional phone: (770) 232-2133  
E-mail: PEP@kpgraphics.com, Fax: (770) 232-2150

MSDS#	422
Version	2.61
Validation Date	2004-02-16
Responsible Name	Kodak Polychrome Graphics

KPG# 60031

**CALL 1-800-451-8346**

### 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-5	30-60	Not available.
2) Solvent naphtha (petroleum), medium aliph.	64742-88-7	10-30	<b>ACGIH TLV (United States, 2003).</b> TWA: 525 mg/m <sup>3</sup> 8 hour(s). <b>OSHA PEL Z2 (United States, 2001).</b> TWA: 2900 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH REL (United States, 1994).</b> TWA: 350 mg/m <sup>3</sup> 10 hour(s). CEIL: 1800 mg/m <sup>3</sup> 15 minute(s).
3) Gum Arabic	9000-01-5	1-5	Not available.
4) Acetic acid	64-19-7	1-5	<b>ACGIH (United States, 2002).</b> STEL: 37 mg/m <sup>3</sup> 15 minute(s). TWA: 25 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH (United States, 1994).</b> STEL: 37 mg/m <sup>3</sup> 15 minute(s). TWA: 25 mg/m <sup>3</sup> 8 hour(s). <b>OSHA (United States, 2001).</b> TWA: 25 mg/m <sup>3</sup> 8 hour(s).
5) Phosphoric acid	7664-38-2	1-5	<b>ACGIH TLV (United States, 2002).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). TWA: 1 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH (United States, 1994).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). TWA: 1 mg/m <sup>3</sup> 10 hour(s). <b>OSHA (United States, 2001).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s).

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### 3. Hazards Identification

**Physical State and Appearance** : Liquid.

**Emergency Overview** : WARNING!  
CAUSES SEVERE EYE IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
CAN CAUSE CNS EFFECTS.  
COMBUSTIBLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FIRE.

Keep away from heat, sparks and flame. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

**Routes of Entry** : Absorbed through skin. Eye contact. Inhalation. Ingestion.

#### Potential Acute Health Effects

**Eyes** : Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

**Skin** : Sensitization of the product: Not available.  
Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** : Slightly hazardous in case of inhalation. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, slowed reaction time, slurred speech giddiness, and unconsciousness.

**Ingestion** : Hazardous in case of ingestion.

**Potential Chronic Health Effects** : **CARCINOGENIC EFFECTS:** Not available.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.

**Medical Conditions Aggravated by Overexposure:** : Repeated or prolonged exposure is not known to aggravate medical condition.

See Toxicological Information (section 11)

### 4. First Aid Measures

**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. Get medical attention immediately.

**Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, get medical attention. Wash contaminated clothing before reusing.

**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.

### 5. Fire Fighting Measures

**Flammability of the Product** : COMBUSTIBLE.

**Auto-Ignition Temperature** : Not determined.

**Flash Points** : Closed cup: 61°C (141.8°F).

- Flammable Limits** : Not determined.
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO<sub>2</sub>). phosphates
- Fire Hazards in Presence of Various Substances** : Flammable in presence of open flames, sparks and static discharge, of heat.
- Explosion Hazards in Presence of Various Substances** : Risks of explosion of the product in presence of mechanical impact: Not available.  
Explosive in presence of open flames, sparks and static discharge.
- Fire Fighting Media and Instructions** : Use DRY chemicals, CO<sub>2</sub>, water spray or foam.
- Protective Clothing (Fire)** : Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental Release Measures

- Small Spill and Leak** : 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.
- Large Spill and Leak** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. 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 allow to evacuate through the sanitary system.

## 7. Handling and Storage

- Handling** : Keep away from heat, sparks and flame. Do not ingest. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store below 10°C (50°F).

## 8. Exposure Controls, Personal Protection

- Engineering Controls** : Use good general ventilation(>10 air changes/hour) and engineering controls (local exhaust, filter's, process enclosures if necessary) to maintain airborne levels below ACGIH Threshold Limit Values (TLV) and OSHA Permissible Exposure Limits(PEL). Ensure that eyewash station and safety shower is proximal to the work-station location.

### Personal Protection

- Eyes** : Safety glasses.
- Body** : Not applicable.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate.
- Hands** : Impervious gloves.
- Feet** : Not applicable.

### Protective Clothing (Pictograms)



- Personal Protection in Case of a Large Spill** : Splash goggles. Lab coat. Impervious gloves. Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Wear appropriate respirator when ventilation is inadequate.

Product Name

Exposure Limits

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1) Water	Not available.
2) Solvent naphtha (petroleum), medium aliph.	<b>ACGIH TLV (United States, 2003).</b> TWA: 525 mg/m <sup>3</sup> 8 hour(s). <b>OSHA PEL Z2 (United States, 2001).</b> TWA: 2900 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH REL (United States, 1994).</b> TWA: 350 mg/m <sup>3</sup> 10 hour(s). CEIL: 1800 mg/m <sup>3</sup> 15 minute(s). Not available.
3) Gum Arabic	
4) Acetic acid	<b>ACGIH (United States, 2002).</b> STEL: 37 mg/m <sup>3</sup> 15 minute(s). TWA: 25 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH (United States, 1994).</b> STEL: 37 mg/m <sup>3</sup> 15 minute(s). TWA: 25 mg/m <sup>3</sup> 8 hour(s). <b>OSHA (United States, 2001).</b> TWA: 25 mg/m <sup>3</sup> 8 hour(s). <b>ACGIH TLV (United States, 2002).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). TWA: 1 mg/m <sup>3</sup> 8 hour(s). <b>NIOSH (United States, 1994).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s). TWA: 1 mg/m <sup>3</sup> 10 hour(s). <b>OSHA (United States, 2001).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s).
5) Phosphoric acid	

Consult local authorities for acceptable exposure limits.

## 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	: Liquid.	<b>Odor</b>	: Pleasant.
		<b>Color</b>	: White.

<b>pH</b>	: 2.9 [Acidic.]
<b>Boiling/Condensation Point</b>	: Not determined.
<b>Melting/Freezing Point</b>	: Not determined.
<b>Specific Gravity</b>	: 0.97 (Water = 1)
<b>Vapor Pressure</b>	: Not determined.
<b>Vapor Density</b>	: Not determined.
<b>VOC by EPA Method 24</b>	: 274 g/l (2.287 lbs/Gal.).
<b>Dispersion Properties</b>	: See solubility in cold water .
<b>Solubility</b>	: Partially soluble in cold water.

## 10. Stability and Reactivity

<b>Stability and Reactivity</b>	: The product is stable.
<b>Conditions of Instability</b>	: Not available.
<b>Incompatibility with Various Substances</b>	: Incompatible with strong oxidizing agents. Incompatible with some alkalis.
<b>Hazardous Decomposition Products</b>	: These products are carbon oxides (CO, CO <sub>2</sub> ). phosphates
<b>Hazardous Polymerization</b>	: Will not occur.

## 11. Toxicological Information

- Toxicity to Animals** : **Water:**  
 ORAL (LD50): Acute: >90000 mg/kg [Rat].  
**Solvent naphtha (petroleum), medium aliph.**  
 LD50: Not available.  
 LC50: Not available.  
**Gum Arabic:**  
 ORAL (LD50): Acute: >16000 mg/kg [Rat]. >8000 mg/kg [Rabbit].  
**Acetic acid:**  
 ORAL (LD50): Acute: 3310 mg/kg [Rat].  
 DERMAL (LD50): Acute: 1060 mg/kg [Rabbit].  
**Phosphoric acid:**  
 ORAL (LD50): Acute: 1530 mg/kg [Rat].  
 DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].
- Chronic Effects on Humans** : Not available.
- Other Toxic Effects on Humans** : Very hazardous in case of eye contact (irritant).  
 Hazardous in case of ingestion.  
 Slightly hazardous in case of skin contact (irritant), of inhalation.

## 12. Ecological Information

- Organics Readily Degradable (70%)** : Not available.
- Ecotoxicity** : Ecotoxicity in water (LC50): >10 mg/l, 96 hour(s) [Fish (Snake-head catfish)]. (Acetic acid).  
 100 mg/l, 96 hour(s) [Fish]. (Phosphoric acid).
- Toxicity of the Products of Biodegradation** : The products of degradation are less toxic than the product itself.

## 13. Disposal Considerations

- Waste Information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- Consult your local or regional authorities.

## 14. Transport Information

- DOT Classification** : Not a DOT controlled material (United States).



- TDG Classification** : Not controlled under TDG (Canada).
- ADR/RID Classification** : Not controlled under ADR (Europe).
- IMO/IMDG Classification** : Not controlled under IMDG.
- ICAO/IATA Classification** : Not controlled under IATA.

## 15. Regulatory Information

- HCS Classification** : CLASS: Irritating substance.  
CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
- U.S. Federal Regulations** : TSCA 8(b) inventory: All the ingredients are on the TSCA list.  
SARA 302 extremely hazardous substances: No products were found.  
SARA 304 emergency planning and notification: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Solvent naphtha (petroleum), medium aliph.: Fire Hazard, Immediate (Acute) Health Hazard; Gum Arabic: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard; Acetic acid: Fire Hazard, Immediate (Acute) Health Hazard; Phosphoric acid: Immediate (Acute) Health Hazard
- SARA 313** : SARA 313 toxic chemical notification and release reporting: No products were found.  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112(r) accidental release prevention: No products were found.
- International Regulations**
- WHMIS (Canada)** : CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
CLASS D-2B: Material causing other toxic effects (TOXIC).
- This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
- CEPA DSL: All the ingredients are on the DSL list.
- DSCL (EEC)** : R65- Harmful: may cause lung damage if swallowed.
- State Regulations** : No products were found.  
California prop. 65: No products were found.

## 16. Other Information

- Label Requirements** : CAUSES SEVERE EYE IRRITATION.  
MAY CAUSE SKIN IRRITATION.  
MAY CAUSE RESPIRATORY TRACT IRRITATION.  
CAN CAUSE CNS EFFECTS.  
COMBUSTIBLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FIRE.

- Hazardous Material Information System (U.S.A.)** :
- |                     |   |   |
|---------------------|---|---|
| Health              | * | 2 |
| Fire Hazard         |   | 2 |
| Reactivity          |   | 0 |
| Personal Protection |   | B |
- National Fire Protection Association (U.S.A.)**



- References** : -Manufacturer's Material Safety Data Sheet.
- Other Special Considerations** : Not available.

Validated by Kodak Polychrome Graphics on 2004-02-16.

Verified by Kodak Polychrome Graphics.

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**In Case of Emergency CALL 1-800-451-8346**

Notice to Reader

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*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.*

*This product is made for Kodak Polychrome Graphics. The data given in this Material Safety Data Sheet has been based on those obtained from the manufacturer.*

**FOR INDUSTRIAL USE ONLY**