

Material Safety Data Sheet

Kodak Polychrome
GRAPHICS

Kodak Polychrome Graphics Subtractive Plate Developer SP200

1. Chemical Product and Company Identification

Common Name : Kodak Polychrome Graphics Subtractive Plate Developer SP200

Synonym : CIN 10099310; PCD 6292

Catalog number : 8719221; 8111296; 1766575; 1129733

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#	234
Version	2.81
Validation Date	2004-10-08
Responsible Name	Kodak Polychrome Graphics

KPG# 30181

CALL 1-800-451-8346

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-5	70-75	Not available.
2) Alkylated naphthalene sulfonate, sodium salt	146239-96-5	10-15	Not available.
3) Benzyl alcohol	100-51-6	5-10	AIHA (WEEL) (United States). TWA: 10 ppm 8 hour(s).
4) Potassium pyrophosphate	7320-34-5	1-5	Not available.
5) Sodium bisulfite	7631-90-5	<1	ACGIH TLV (United States, 1/2004). TWA: 5 mg/m ³ 8 hour(s). NIOSH REL (United States, 1/2003). TWA: 5 mg/m ³ 10 hour(s).

3. Hazards Identification

Physical State and Appearance : Liquid.

Emergency Overview : WARNING!

CAUSES EYE BURNS.
CAUSES SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Avoid breathing vapors or spray mists. Do not get in eyes. Avoid contact with skin. Use 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 (corrosive).

Skin : Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation : Low hazard for recommended handling

Ingestion : May be harmful if swallowed.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH [Sodium bisulfite].

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

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Medical Conditions : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Aggravated by

Overexposure:

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.

Skin Contact : In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

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.

5. Fire Fighting Measures

Flammability of the Product : May be combustible at high temperature.

Auto-Ignition Temperature : Not available.

Hazardous thermal (de)composition products : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...), phosphates.

Fire Hazards in Presence of Various Substances : Not considered to be flammable.

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 and sparks, of heat.

Fire Fighting Media and Instructions : Use DRY chemicals, CO₂, 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 : Dilute with water and mop up, or absorb with an inert dry 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.

Large Spill and Leak : 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

Handling : Do not ingest. Avoid breathing vapors or spray mists. Do not get in eyes. Avoid contact with skin. Use with adequate ventilation. Wash thoroughly after handling.

Storage : Store at room temperature 25°C (77°F) or lower. Prevent from freezing

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 stations and safety showers are close to the work-station location.

Personal Protection

Eyes : Face shield

Body : Synthetic apron.

Respiratory : Not applicable. Wear appropriate respirator when ventilation is inadequate.

Hands : Impervious gloves.

Feet : Not applicable.

Protective Clothing (Pictograms) :



Personal Protection in Case of a Large Spill : Face shield. Lab coat. Impervious gloves. In case of insufficient ventilation, wear suitable respiratory equipment.

Product Name

- 1) Water
- 2) Alkylated naphthalene sulfonate, sodium salt
- 3) Benzyl alcohol
- 4) Potassium pyrophosphate
- 5) Sodium bisulfite

Exposure Limits

Not available.

Not available.

AIHA (WEEL) (United States).

TWA: 10 ppm 8 hour(s).

Not available.

ACGIH TLV (United States, 1/2004).

TWA: 5 mg/m³ 8 hour(s).

NIOSH REL (United States, 1/2003).

TWA: 5 mg/m³ 10 hour(s).

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance : Liquid.

Odor : Sweet.

Color : Clear - hazy, light brown - orange.

pH : 6.8 [Neutral.]

Boiling/Condensation Point : >100°C (212°F)

Melting/Freezing Point : <0°C (32°F)

Specific Gravity : 1.092 (Water = 1)

Vapor Pressure : 2.4 kPa (@ 20°C)

Vapor Density : 0.6 (Air = 1)

Volatility : 70 to 75% (w/w).

VOC Calculated : 109 g/l (0.91 lbs/Gal.).

Dispersion Properties : See solubility in water.

Solubility : Easily soluble in cold water.

10. Stability and Reactivity

Stability and Reactivity : The product is stable.

Conditions of Instability : Not available.

Incompatibility with Various Substances : Incompatible with strong oxidising agents.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...), phosphates.

Hazardous Polymerization : Will not occur.

11. Toxicological Information

- Toxicity to Animals** : **Water:**
 ORAL (LD50): Acute: >90000 mg/kg [Rat].
Alkylated naphthalene sulfonate, sodium salt
 LD50: Not available.
 LC50: Not available.
Benzyl alcohol:
 ORAL (LD50): Acute: 1230 mg/kg [Rat].
 DERMAL (LD50): Acute: 2000 mg/kg [Rabbit].
Potassium pyrophosphate:
 ORAL (LD50): Acute: 2980 mg/kg [Rat].
 DERMAL (LD50): Acute: >4640 mg/kg [Rabbit].
 VAPOR (LC50): Acute: >1.1 mg/l 4 hour(s) [Rat].
Sodium bisulfite:
 ORAL (LD50): Acute: 2000 mg/kg [Rat].
- Chronic Effects on Humans** : **CARCINOGENIC EFFECTS:** Classified A4 (Not classifiable for human or animal.) by ACGIH [Sodium bisulfite].
- Other Toxic Effects on Humans** : Hazardous in case of skin contact (irritant), of eye contact (corrosive).
 Slightly hazardous in case of skin contact (sensitizer), of ingestion.

12. Ecological Information

- Organics Readily Degradable (70%)** : Not available.
- Ecotoxicity** : Ecotoxicity in water (LC50): 630 mg/l, 96 hour(s) [Fish]. (Benzyl alcohol). >100 mg/l, 96 hour(s) [Fish (Trout)]. (Potassium pyrophosphate). >100 mg/l, 48 hour(s) [Daphnia]. (Potassium pyrophosphate).
- 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.
- U.S. Federal Regulations** : TSCA 8(b) inventory: All the ingredients are on the TSCA list.
 SARA 304 extremely hazardous substances: No products were found.
 SARA 302 emergency planning and notification: No products were found.
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzyl alcohol: Immediate (Acute) Health Hazard
- SARA 313 Reporting Requirements** : 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 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) : This product is not classified according to the EU regulations.

State Regulations : Pennsylvania RTK: Benzyl alcohol: (not a special hazard)
 Florida: Benzyl alcohol
 Massachusetts RTK: Benzyl alcohol
 California prop. 65: No products were found.

16. Other Information

Hazardous Material Information System (U.S.A.)	Health	2	National Fire Protection Association (U.S.A.)
	Fire Hazard	1	
	Reactivity	0	
	Personal Protection	D	



References : Not available.

Other Special Considerations : Not available.

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

Notice to Reader

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