

KPG Order#: 0224094

P.O. #: K43609

SYRACUSE CITY SCHOOL DIST  
258 EAST ADAMS STREET  
CENTRAL TECH VOCATIONAL  
SYRACUSE, NY 13210

TO: Safety/Plant/Branch Manager  
FROM: Pradip Gopal, General Manager, Environmental Solutions Department

SUBJECT: Material Safety Data Sheets

Enclosed are the Material Safety Data Sheets (MSDS's) listed below for the Kodak Polychrome Graphics chemical products you have purchased. The MSDS's provide important safety and health information for working safely with our chemicals.

You should maintain a file for the MSDS's in the event you receive requests for them or have to provide them to your employees or customers as required by certain right-to-know laws or OSHA's Federal Hazard Communication Standard (29 CFR 1910.1200). The information contained in a product's MSDS should be provided to each person prior to that individual using the product. Please feel free to duplicate the information we have provided.

Kodak Polychrome Graphics makes no representations or warranties, independent of those made by the manufacturers noted in the enclosed MSDS's, concerning MSDS compliance or content accuracy.

As part of our commitment to making Kodak Polychrome Graphics product MSDS's available, MSDS's can also be automatically downloaded from our toll free Faxback Hotline at 1-877-KPGraphics (574-7274) ext. 522 or our web site at [www.KPGraphics.com/MSDS](http://www.KPGraphics.com/MSDS) 24 hours/day.

If you have any questions about MSDS's or other environmental, health and safety issues, please call the EnviroServices Hotline at 1-877-KPGraphics (574-7274) ext. 511 or email [MSDS@KPGraphics.com](mailto:MSDS@KPGraphics.com). In the case of medical emergencies or spills, you may also call 1-800-451-8346 24 hours/day.

Thank you for purchasing Kodak Polychrome Graphics products and the opportunity to be of service to you.

8228421

EA 1G SUBTRACTIVE 2-IN-1 SP DE



KODAK POLYCHROME GRAPHICS

Material Safety Data Sheet

Kodak Polychrome Graphics Subtractive 2-in-1 Plate Developer SP211/USA

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name : Kodak Polychrome Graphics                      MSDS#            211  
                    Subtractive 2-in-1 Plate  
                    Developer SP211/USA                      Version        2.62

Synonym        : CIN 10099461; PCD 6296;                      Validation Date :  
                    C-0109.200                                      2001-01-29

Catalogue     : 877 4945; 877 0547; 851 2212; 822  
number        8421; 047 9576; 047 6754; 047  
                    6747; 047 6712; 040 2784; 040  
                    2776

Area of        : Industrial applications.                      KPG# 30191  
Application    Graphic Arts Imaging.

Responsible   : Kodak Polychrome Graphics  
Name

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

## EMERGENCY TELEPHONE NUMBER:

In Case of Emergency CALL 1-800-451-8346    (medical/roadside) (24hrs)

## FOR OTHER EHS INFORMATION:

Kodak Polychrome Graphics  
Environmental Solutions Department  
11465 Johns Creek Parkway #260  
Duluth, GA 30097; USA

Phone: 1-877-574-7274 ext. 511    Additional phone: (770)232-2133  
E-mail: PEP@kpgraphics.com  
Fax: (770) 232-2150

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2. COMPOSITION, INFORMATION ON INGREDIENTS

Name	CAS #	% by Weight	Exposure Limits
Water	7732-18-5	75-80	Not available.

8228421 EA 1G SUBTRACTIVE 2-IN-1 SP DE SYRACUSE CITY SCHOOL DIST 2  
Alkylated naphtalene sulfonate, 146239-96-5 5-10 Not available.  
sodium salt  
Benzyl alcohol 100-51-6 5-10 TWA: 10 (ppm)  
[United States]  
TWA: 5 (mg/m3)  
[Russia]  
Potassium pyrophosphate 7320-34-5 1-5 TWA: 10 (mg/m3)  
Ethoxylated methyl glucose dioleate 86893-19-8 1-5 Not available.  
Sodium bisulfite 7631-90-5 <1 TWA: 5 (mg/m3)

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### 3. HAZARDS IDENTIFICATION

Physical State and Appearance: Liquid.

Emergency Overview:

**WARNING!**

MAY CAUSE EYE BURNS.

May CAUSE SKIN IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Avoid breathing vapor or mist. Do not get in eyes. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Wash thoroughly after handling.

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

#### Potential Acute Health Effects

Eyes : Very hazardous in case of eye contact (corrosive).

Skin : Very 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 : Slightly hazardous in case of inhalation (lung irritant).

Ingestion : Slightly hazardous in case of ingestion.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Sodium hydrogen sulfite].

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)

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### 4. FIRST AID MEASURES

Eye Contact : In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

- Skin Contact : After contact with skin, wash immediately with plenty of water. If irritation persists, seek medical attention.
- Inhalation : Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention.
- Ingestion : If swallowed, seek medical advice. Never give anything by mouth to an unconscious person.

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## 5. FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: -

Flash Points: -

Flammable Limits: -

Hazardous thermal (de)composition products: These products are carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...), phosphates.

Fire Hazards in Presence of Various Substances: -

Explosion Hazards in Presence of Various Substances: Explosive in presence of open flames and sparks, of heat.

Risks of explosion of the product in presence of mechanical impact: Not available.

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.

Special Remarks on Fire Hazards: -

Special Remarks on Explosion Hazards: None.

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## 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.

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## 7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin, and clothing. Do not ingest. Wash thoroughly after handling. Use only with adequate ventilation.

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

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## 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: Gloves (impervious).

Feet: Not applicable.

### Personal Protection in Case of a Large Spill:

Splash goggles. Lab coat. Gloves (impervious).

Ventilation is normally required when handling or using this product (typically 10 air changes per hour).

Product Name	Exposure Limits
Water	Not available.
Alkylated naphtalene sulfonate, sodium salt	Not available.
Benzyl alcohol	TWA: 10 (ppm) [United States] TWA: 5 (mg/m3) [Russia]
Potassium pyrophosphate	TWA: 10 (mg/m3)
Ethoxylated methyl glucose dioleate	Not available.
Sodium bisulfite	TWA: 5 (mg/m3)

Consult local authorities for acceptable exposure limits.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: Liquid.

Odor

Sweet.

Taste : Not available.

Color : Clear orange - yellow.

pH : 7 [Neutral.]

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

Melting/Freezing Point : <0°C (32°F)

Density : Not available.

Specific Gravity : 1.066 (Water = 1)

Vapor Pressure : 2.4 kPa (@ 20°C)

Vapor Density : 0.6 (Air = 1)

Volatility : 75 to 80% (w/w).

VOC Calculated : 64.2 g/l (0.536 lbs/Gal.).

Ionicity (in Water) : Not available.

Dispersion Properties : See solubility in cold water

Solubility : Soluble in cold water.

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#### 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, CO<sub>2</sub>), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...), phosphates.

Hazardous Polymerization: Will not occur.

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#### 11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:

Water:

ORAL (LD<sub>50</sub>): Acute: >90000 mg/kg [Rat].

Alkylated naphtalene sulfonate, sodium salt

LD<sub>50</sub>: Not available.

LC<sub>50</sub>: Not available.

Benzyl alcohol:

ORAL (LD<sub>50</sub>): Acute: 1230 mg/kg [Rat].

DERMAL (LD<sub>50</sub>): Acute: 2000 mg/kg [Rabbit].

Potassium pyrophosphate:

ORAL (LD50): Acute: 2980 mg/kg [Rat].

DERMAL (LD50): Acute: >7940 mg/kg [Rabbit].

Ethoxylated methyl glucose dioleate

LD50: Not available.

LC50: Not available.

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:

Very hazardous in case of skin contact (irritant).

Slightly hazardous in case of skin contact (sensitizer), of ingestion, of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on Other Toxic Effects on Humans: Not available.

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## 12. ECOLOGICAL INFORMATION

Biodegradable/OECD: -

BOD5 and COD: Not available.

Ecotoxicity: Ecotoxicity in water (LC50): 630 mg/l 96 hours [Fish].  
(Benzyl alcohol).

Bioaccumulative potential: -

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: -

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## 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.

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## 14. TRANSPORT INFORMATION

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

Marine Pollutant: Not available.

Hazardous Substances Reportable Quantity: Not available.

Special Provisions for Transport: Not applicable.

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.

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#### 15. REGULATORY INFORMATION

HCS Classification: CLASS: Irritating substance.

#### U.S. Federal Regulations:

TSCA 8(b) inventory: Water; Alkylated naphtalene sulfonate, sodium salt; Benzyl alcohol; Potassium pyrophosphate; Ethoxylated methyl glucose dioleate; Sodium bisulfite  
SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Benzyl alcohol: immediate health hazard; Sodium bisulfite: immediate health hazard, delayed health hazard

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 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: 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



CEPA DSL: Water; Alkylated naphtalene sulfonate,  
sodium salt; Benzyl alcohol; Potassium  
pyrophosphate; Ethoxylated methyl glucose  
dioleate; Sodium bisulfite

DSCL (EEC) : This product is not classified according to the  
EU regulations.

International Lists : WGK 1

State Regulations : No products were found.

California prop. 65: No products were found.

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#### 16. OTHER INFORMATION

Label Requirements: CAUSES EYE BURNS. CAUSES SKIN IRRITATION.  
MAY BE HARMFUL IF SWALLOWED.

Hazardous Material Information System (U.S.A.):

Health	2	Fire	1	Reactivity	0	Personal	B
		Hazard				Protection	

National Fire Protection Association (U.S.A.):

Health	2	Fire	1	Reactivity	0	Specific
		Hazard				Hazard

References: Not available.

Other Special Considerations: Not available.

Validated by Kodak Polychrome Graphics on 2001-01-29.

Verified by Kodak Polychrome Graphics.

Printed 2001-01-30.

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

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#### 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.

