

# Material Safety Data Sheet

**Kodak Polychrome**  
G R A P H I C S

## Silverstar Positive Plate Developer / US/C

### 1. Chemical Product and Company Identification

Common Name : Silverstar Positive Plate Developer / US/C

Synonym : CIN 10095384; PCD 6309; E-0014.000

Catalog number : 8636441; 8383036; 1699214; 1027085

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#            | 237                       |
| Version          | 2.6                       |
| Validation Date  | 2003-12-22                |
| Responsible Name | Kodak Polychrome Graphics |

KPG# 40421

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

### 2. Composition, Information on Ingredients

| Name                     | CAS #     | % by Weight | Exposure Limits |
|--------------------------|-----------|-------------|-----------------|
| 1) Water                 | 7732-18-5 | 90-95       | Not available.  |
| 2) Disodium metasilicate | 6834-92-0 | 5-10        | Not available.  |

### 3. Hazards Identification

Physical State and Appearance : Liquid.

Emergency Overview : DANGER!  
CAUSES EYE BURNS.  
HARMFUL IF SWALLOWED.  
MIST IRRITATING TO THE EYES AND RESPIRATORY TRACT.  
CAUSES SKIN IRRITATION.

Do not get in eyes, on skin or on clothing. Avoid breathing vapors or spray mists. Use with adequate ventilation. Wash thoroughly after handling.

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

#### Potential Acute Health Effects

*Eyes* : Hazardous in case of eye contact (corrosive).

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

*Inhalation* : Hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.

*Ingestion* : May be fatal if swallowed. May cause burns to mouth, throat, and stomach.

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

**Medical Conditions Aggravated by Overexposure:** : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

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** : After contact with skin, wash immediately with plenty of water. Get medical attention if symptoms occur.

**Inhalation** : Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention.

**Ingestion** : Do not induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

## 5. Fire Fighting Measures

**Flammability of the Product** : Non combustible.

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

**Hazardous thermal (de)composition products** : None.

**Fire Hazards in Presence of Various Substances** : Not applicable.

**Explosion Hazards in Presence of Various Substances** : Risks of explosion of the product in presence of mechanical impact: Not available.  
Risks of explosion of the product in presence of static discharge: Not available.

**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** : 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.

**Large Spill and Leak** : Do not touch spilled material. Absorb with DRY earth, sand or other non-combustible material. Neutralize the residue with a dilute solution of acetic acid. 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, on skin or on clothing. 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** : Ventilation is normally required when handling or using this product (typically 10 air changes per hour). Ensure that eyewash station and safety shower is proximal to the work-station location.

**Personal Protection**

*Eyes* : Face shield.

*Body* : Synthetic apron.

*Respiratory* : Not applicable.

*Hands* : Impervious gloves.

*Feet* : Not applicable.

**Protective Clothing (Pictograms)** :



**Personal Protection in Case of a Large Spill** : Face shield. Impervious gloves. Lab coat. Ventilation is normally required when handling or using this product (typically 10 air changes per hour).

**Product Name**

- 1) Water
- 2) Disodium metasilicate

**Exposure Limits**

- Not available.  
Not available.

Consult local authorities for acceptable exposure limits.

## 9. Physical and Chemical Properties

**Physical State and Appearance** : Liquid.

**Odor** : Odorless.

**Color** : Blue. (Light.)

**pH** : >13 [Basic.]

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

**Melting/Freezing Point** : <0°C (32°F)

**Specific Gravity** : 1.058 (Water = 1)

**Vapor Pressure** : 2.4 kPa (@ 20°C)

**Vapor Density** : 0.6 (Air = 1)

**VOC Calculated** : 0 g/l (0 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 some strong acids.

**Hazardous** : None.

**Decomposition Products**

**Hazardous** : Will not occur.

**Polymerization**

## 11. Toxicological Information

**Toxicity to Animals** : **Water:**  
 ORAL (LD50): Acute: >90000 mg/kg [Rat].  
**Disodium metasilicate:**  
 ORAL (LD50): Acute: 1280 mg/kg [Rat].

**Chronic Effects on Humans** : Not available.

**Other Toxic Effects on Humans** : Hazardous in case of skin contact (irritant), of eye contact (corrosive), of ingestion, of inhalation.

## 12. Ecological Information

**Organics Readily Degradable (70%)** : Not available.

**Ecotoxicity** : Not available.

## 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** : Exempt for corrosive to metals only



**TDG Classification** : TDG Class 8: Corrosive liquid.

**ADR/RID Classification** : ADR Class 8: Corrosive liquid.

**IMO/IMDG Classification** : IMDG Class 8: Corrosive liquid.

**Proper Shipping Name** : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium metasilicate)

**UN number** : UN3266

**Packing Group** : III

**ICAO/IATA Classification** : IATA Class 8: Corrosive liquid.

**Proper Shipping Name** : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium metasilicate)

**UN number** : UN3266

**Packing Group** : III

## 15. Regulatory Information

**HCS Classification** : Corrosive Material

**U.S. Federal Regulations** : TSCA 8(b) inventory: Water; Disodium metasilicate  
 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: Disodium metasilicate: Immediate (Acute) Health Hazard

**SARA 313** :

**Form R - Reporting Requirements** : No products were found.

**Supplier Notification** : 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).  
 Class E: Corrosive liquid.

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: Water; Disodium metasilicate

**DSCL (EEC)** : R36/38- Irritating to eyes and skin.

**State Regulations** : No products were found.  
 California prop. 65: No products were found.

## 16. Other Information

**Label Requirements** : CAUSES EYE BURNS.  
 HARMFUL IF SWALLOWED.  
 MIST IRRITATING TO THE EYES AND RESPIRATORY TRACT.  
 CAUSES SKIN IRRITATION.

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

|                     |   |
|---------------------|---|
| Health              | 2 |
| Fire Hazard         | 0 |
| Reactivity          | 0 |
| Personal Protection | D |

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



**References** : Not available.

**Other Special Considerations** : Not available.

Validated by Kodak Polychrome Graphics on 2003-12-22.

Verified by Kodak Polychrome Graphics.  
 Printed 2003-12-22.

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

**Notice to Reader**

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