Material Safety Data Sheet

Kodak Polychrome GRAPHICS

Negative Plate Developer 956

1. Chemical Product and Company Identification

Common Name : **Negative Plate Developer 956**

Synonym : CIN 10095686; PCD 6315; C-0109.100

Catalog number : 8741399; 8016982; 1663665

Area of Application : Industrial applications. Graphic Arts Imaging.

MSDS#	**214**
Version	**3**
Validation Date	**2004-05-26**
Responsible Name	**Kodak Polychrome Graphics**

KPG# **30021**

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

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

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-5	80-90	Not available.
2) Glycerol	56-81-5	1-5	**NOM-010-STPS (Mexico, 1999).** TWA: 10 mg/m^3 8 hour(s). **OSHA (United States, 2001).** TWA: 15 mg/m^3 8 hour(s). Form: Total dust TWA: 5 mg/m^3 8 hour(s). Form: Respirable fraction
3) Sodium methylnaphthalene sulfonate	26264-58-4	1-5	Not available.
4) 2-Phenoxyethanol	122-99-6	3	Not available.
5) Sodium octyl sulfate	142-31-4	1-5	Not available.
6) Diethanolamine	111-42-2	1	**ACGIH (United States, 2002). Skin** TWA: 2 mg/m^3 8 hour(s). **NIOSH (United States, 1994).** TWA: 15 mg/m^3 10 hour(s).

3. Hazards Identification

Physical State and Appearance : Liquid.

Emergency Overview : WARNING !
HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED.
CAUSES EYE AND SKIN IRRITATION.
Avoid breathing vapors or spray mists. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling.

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

Potential Acute Health Effects

Eyes : Slightly hazardous in case of eye contact (irritant).

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.

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Ingestion	:	Slightly hazardous in case of ingestion.
Potential Chronic Health Effects	:	**CARCINOGENIC EFFECTS**: Not available. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available. May cause kidney damage based on animal data. May cause liver damage based on animal data. May cause blood disorders based on animal data.
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.
Skin Contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reusing.
Inhalation	:	Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention.
Ingestion	:	Have conscious person drink several glasses of water or milk. Do not induce vomiting. Seek immediate medical attention.

5. Fire Fighting Measures

Flammability of the Product	:	May be combustible at high temperature.
Auto-Ignition Temperature	:	Not applicable.
Hazardous thermal (de)composition products	:	These products are carbon oxides (CO, CO_2), sulfur oxides (SO_2, SO_3...).
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	:	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: **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.
Large Spill and Leak	:	Absorb with an inert material and put the spilled material in an appropriate waste disposal. **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.

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7. Handling and Storage

Handling : Avoid breathing vapors or spray mists. Avoid contact with eyes, skin and 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 : 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 : 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 : Splash goggles. Lab coat. Impervious gloves. Ventilation is normally required when handling or using this product. Wear appropriate respirator when ventilation is inadequate.

Product Name	Exposure Limits
1) Water	Not available.
2) Glycerol	**NOM-010-STPS (Mexico, 1999).** TWA: 10 mg/m^3 8 hour(s). **OSHA (United States, 2001).** TWA: 15 mg/m^3 8 hour(s). Form: Total dust TWA: 5 mg/m^3 8 hour(s). Form: Respirable fraction
3) Sodium methylnaphthalene sulfonate	Not available.
4) 2-Phenoxyethanol	Not available.
5) Sodium octyl sulfate	Not available.
6) Diethanolamine	**ACGIH (United States, 2002). Skin** TWA: 2 mg/m^3 8 hour(s). **NIOSH (United States, 1994).** TWA: 15 mg/m^3 10 hour(s).

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance : Liquid.

Odor : Not available.

Color : Clear. Orange.

pH : 9.8 [Basic.]

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

Melting/Freezing Point : <0°C (32°F)

Specific Gravity : 1.041 (Water = 1)

Vapor Pressure : 2.4 kPa (@ 20°C)

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Vapor Density : 0.6 (Air = 1)

Volatility : 80 to 85% (w/w).

VOC Calculated : 50.7 g/l (0.423 lbs/Gal.).

Dispersion Properties : See solubility in cold 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 oxidizing agents.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO_2), sulfur oxides (SO_2, SO_3...).

Hazardous Polymerization : Will not occur.

11. Toxicological Information

Toxicity to Animals :

Water:
ORAL (LD50): Acute: >90000 mg/kg [Rat].

Glycerol:
ORAL (LD50): Acute: 12600 mg/kg [Rat].
DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].

Sodium methylnaphthalene sulfonate:
ORAL (LD50): Acute: 5620 mg/kg [Rat].

2-Phenoxyethanol:
ORAL (LD50): Acute: 1260 mg/kg [Rat].
DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].

Sodium octyl sulfate:
ORAL (LD50): Acute: 3200 mg/kg [Rat].

Diethanolamine:
ORAL (LD50): Acute: 710 mg/kg [Rat].
DERMAL (LD50): Acute: 12200 mg/kg [Rabbit].

Chronic Effects on Humans : Contains: 2-phenoxyethanol. May cause blood disorders based on animal data.
Contains: diethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver, blood, nervous system, testes.

Other Toxic Effects on Humans : Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

12. Ecological Information

Organics Readily Degradable (70%) : Not available.

Ecotoxicity : Ecotoxicity in water (LC50): 347 mg/l, 96 hours [Fish (Fish.)]. (2-Phenoxyethanol). 460 mg/l, 48 hours [Daphnia (daphnia)]. (2-Phenoxyethanol).

Toxicity of the Products of Biodegradation : The product itself and its products of degradation are not toxic.

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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.

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 : HCS Class: Irritating substance.

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:
2-Phenoxyethanol: Sudden Release of Pressure; Diethanolamine: Immediate (Acute) Health Hazard

SARA 313 :

Reporting Requirements

2-Phenoxyethanol	4%
Diethanolamine	1%

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-1B: Material causing immediate and serious toxic effects (TOXIC).
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) : R36- Irritating to eyes.

State Regulations : No products were found.

California prop. 65: No products were found.

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16. Other Information

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

Health	*	2
Fire Hazard		1
Reactivity		0
Personal Protection		C

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

References : Not available.

Other Special Considerations : Not available.

Validated by Kodak Polychrome Graphics on 2004-05-26.

Verified by Kodak Polychrome Graphics.

Printed 2004-05-26.

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

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