

Material Safety Data Sheet

980 Plate Developer



1. Chemical Product and Company Identification

Common Name : 980 Plate Developer

Synonym : Not available.

Catalog number : 1325893

Area of Application : Industrial applications. Graphic Arts Imaging.

Supplier : Eastman Kodak Company
343 State Street
Rochester, New York, 14650
USA

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

For other Health, Safety and Environment Information : Eastman Kodak Company, Graphic Communications Group
Health, Safety & Environment
11465 Johns Creek Parkway, Suite 260, Duluth GA 30097 USA
EnviroServices Hotline: 1-877-574-7274 or 770-232-2133
Email: PEP@kodak.com; Fax: 770-232-2150

MSDS#	242
Version	4.11
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Responsible Name	Eastman Kodak Company

KPG# 30161

CALL 1-800-451-8346

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Water	7732-18-5	85-90	Not available.
2) Sodium methylnaphthalene sulfonate	26264-58-4	1-5	Not available.
3) 2-Phenoxyethanol	122-99-6	3	Not available.
4) Sodium octyl sulfate	142-31-4	1-5	Not available.
5) Diethanolamine	111-42-2	2	ACGIH TLV (United States, 1/2006). Skin TWA: 2 mg/m ³ 8 hour/hours. NIOSH REL (United States, 12/2001). TWA: 15 mg/m ³ 10 hour/hours.
6) Tetrasodium ethylenediamine tetraacetate	64-02-8	1-5	Not available.

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, spray or 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 : Sensitizing properties 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.

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.

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Medical Conditions : Repeated or prolonged exposure is not known to aggravate any medical condition.

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. Cold water may be used. 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 if symptoms occur.

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 : Non-combustible.

Hazardous thermal (de)composition products : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...). nitrogen oxides (NO, NO₂ etc.)

Fire Hazards in Presence of Various Substances : Not applicable.

Explosion Hazards in Presence of Various Substances : Risk of explosion of the product in the presence of mechanical impact: Not available.
Risk of explosion of the product in the 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.

7. Handling and Storage

Handling : Do not ingest. Avoid breathing vapors, spray or 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, filters, 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.

Hands : Impervious gloves.

Feet : Not applicable.

Protective Clothing (Pictograms) :



Personal Protection in Case of a Large Spill : Splash goggles. 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) Sodium methylnaphthalene sulfonate
- 3) 2-Phenoxyethanol
- 4) Sodium octyl sulfate
- 5) Diethanolamine

Exposure Limits

Not available.

Not available.

Not available.

Not available.

ACGIH TLV (United States, 1/2006). Skin

TWA: 2 mg/m³ 8 hour/hours.

NIOSH REL (United States, 12/2001).

TWA: 15 mg/m³ 10 hour/hours.

- 6) Tetrasodium ethylenediamine tetraacetate

Not available.

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance : Liquid.

Odor : Detergents.

Color : Yellow.

pH : 10 [Basic.]

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

Melting/Freezing Point : <0°C (32°F)

Specific Gravity : 1.04 (Water = 1)

Vapor Pressure : Not available.

Vapor Density : Not available.

Volatility : 85 to 90% (w/w).

VOC content - calculated : 145.6 g/l (1.215 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 oxidizing agents.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...). nitrogen oxides (NO, NO₂ etc.)

Hazardous Polymerization : Will not occur.

11. Toxicological Information

- Toxicity to Animals** : **Water:**
 ORAL (LD50): Acute: >90000 mg/kg [Rat].
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].
Tetrasodium ethylenediamine tetraacetate:
 ORAL (LD50): Acute: >1000 mg/kg [Rat].
- 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 hour/hours [Fish (Fathead minnow (Pimepheles promelas))]. (2-Phenoxyethanol). 460 mg/l, 48 hour/hours [Daphnia]. (2-Phenoxyethanol). 1480 mg/l, 96 hour/hours [Fish]. (Diethanolamine). >500 mg/l, 96 hour/hours [Fish]. (Tetrasodium ethylenediamine tetraacetate). >10 mg/l, 72 hour/hours [Algae]. (Tetrasodium ethylenediamine tetraacetate). >100 mg/l, 48 hour/hours [Daphnia]. (Tetrasodium ethylenediamine tetraacetate).
- Toxicity of the Products of Biodegradation** : The product itself and its products of degradation are not toxic.

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; Tetrasodium ethylenediamine tetraacetate: Immediate (acute) health hazard

SARA 313

Reporting Requirements : 2-Phenoxyethanol 3%
 Diethanolamine 2%

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/NDL : CEPA DSL: All the ingredients are on the DSL list.

DSCL (EEC) : R36- Irritating to eyes.

State Regulations : Pennsylvania RTK: Diethanolamine: (environmental hazard)
 Florida: Diethanolamine
 Massachusetts RTK: Diethanolamine
 New Jersey: Diethanolamine
 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		0	
	Reactivity		0	
	Personal Protection		C	



References : Not available.

Other Special Considerations : Not available.

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

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