

Material Safety Data Sheet

Kodak Polychrome
G R A P H I C S

KODAK AQUA-IMAGE Cleaner / Preserver

1. Chemical Product and Company Identification

Common Name : KODAK AQUA-IMAGE Cleaner / Preserver

Synonym : CIN 10068023; KAN 355388; PCD 3855/40420; E-0001.000

Catalog number : 8333635

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#	414
Version	2.61
Validation Date	2004-02-25
Responsible Name	Kodak Polychrome Graphics

KPG# 60021

CALL 1-800-451-8346

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Stoddard solvent	8052-41-3	60-65	ACGIH (United States, 2002). TWA: 525 mg/m ³ 8 hour(s). NIOSH (United States, 1994). STEL: 1800 mg/m ³ 15 minute(s). TWA: 350 mg/m ³ 8 hour(s). OSHA (United States, 2001). TWA: 2900 mg/m ³ 8 hour(s). Not available.
2) Water	7732-18-5	20-30	ACGIH TLV (United States, 2002). TWA: 10 ppm 8 hour(s). Form: Mist
3) Glycerol	56-81-5	5-10	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 Not available.
4) Sodium phosphate, dibasic	7558-79-4	1-5	ACGIH TLV (United States, 2002). STEL: 3 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 8 hour(s).
5) Phosphoric acid	7664-38-2	1-5	NIOSH (United States, 1994). STEL: 3 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 10 hour(s). OSHA (United States, 2001). TWA: 1 mg/m ³ 8 hour(s). Not available.
6) Polyvinyl pyrrolidone	9003-39-8	1-5	Not available.

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3. Hazards Identification

- Physical State and Appearance** : Liquid. (Emulsion liquid.)
- Emergency Overview** : WARNING
 COMBUSTIBLE LIQUID AND VAPOR.
 NOTICE! DELIBERATE CONCENTRATION AND INHALATION OF VAPORS MAY BE HARMFUL OR FATAL.
 MAY BE HARMFUL IF SWALLOWED.
 CAUSES SKIN AND EYE IRRITATION.
 HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS.
 CAN CAUSE CNS EFFECTS.
 Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated breathing of mist. Keep away from heat, sparks and flame. 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 (irritant).
- 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. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, slowed reaction time, slurred speech giddiness, and unconsciousness.
- Ingestion* : May be harmful if swallowed.
- 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.
- 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. Wash contaminated clothing before reusing.
- 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** : Flammable.
- Auto-Ignition Temperature** : Not available.
- Flash Points** : CLOSED CUP: 47°C (116.6°F). (Setaflash.)

Flammable Limits	: The greatest known range is LOWER: 1.1% UPPER: 6% (Stoddard solvent)
Hazardous thermal (de)composition products	: These products are carbon oxides (CO, CO ₂).
Fire Hazards in Presence of Various Substances	: Not available.
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, CO ₂ , water spray or foam.
Protective Clothing (Fire)	: Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	: May emit toxic fumes under fire conditions.

6. Accidental Release Measures

Small Spill and Leak	: Eliminate all ignition sources. 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	: Eliminate all ignition sources. 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 contact with eyes, skin and clothing. Avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated breathing of mist. Keep away from heat, sparks and flame. Ground all equipment containing material. Use with adequate ventilation. Wash thoroughly after handling.
Storage	: Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep away from heat, sparks and flame. Keep container tightly closed. 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.
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Personal Protection

<i>Eyes</i>	: Safety glasses.
<i>Body</i>	: Not applicable.
<i>Respiratory</i>	: Not applicable. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	: Impervious gloves.
<i>Feet</i>	: 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 (typically 10 air changes per hour). Wear appropriate respirator when ventilation is inadequate.
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Product Name	Exposure Limits
1) Stoddard solvent	ACGIH (United States, 2002). TWA: 525 mg/m ³ 8 hour(s). NIOSH (United States, 1994). STEL: 1800 mg/m ³ 15 minute(s). TWA: 350 mg/m ³ 8 hour(s). OSHA (United States, 2001). TWA: 2900 mg/m ³ 8 hour(s). Not available.
2) Water	
3) Glycerol	ACGIH TLV (United States, 2002). TWA: 10 ppm 8 hour(s). Form: Mist 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 Not available.
4) Sodium phosphate, dibasic	
5) Phosphoric acid	ACGIH TLV (United States, 2002). STEL: 3 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 8 hour(s). NIOSH (United States, 1994). STEL: 3 mg/m ³ 15 minute(s). TWA: 1 mg/m ³ 10 hour(s). OSHA (United States, 2001). TWA: 1 mg/m ³ 8 hour(s). Not available.
6) Polyvinyl pyrrolidone	Not available.

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance	: Liquid. (Emulsion liquid.)	Odor	: Aromatic.
		Color	: White.
pH	: Not available.		
Boiling/Condensation Point	: >100°C (212°F)		
Melting/Freezing Point	: <0°C (32°F)		
Specific Gravity	: 0.89 (Water = 1)		
Vapor Pressure	: 2.8 kPa (21 mm Hg) (at 20°C)		
Vapor Density	: 0.8 (Air = 1)		
Volatility	: 85% (w/w).		
VOC Calculated	: 645 g/l (5.383 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, CO ₂).
Hazardous Polymerization	: Will not occur.

11. Toxicological Information

- Toxicity to Animals** : **Stoddard solvent:**
 ORAL (LD50): Acute: >4000 mg/kg [Rat].
 DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].
Water:
 ORAL (LD50): Acute: >90000 mg/kg [Rat].
Glycerol:
 ORAL (LD50): Acute: 12600 mg/kg [Rat].
 DERMAL (LD50): Acute: >10000 mg/kg [Rabbit].
Sodium phosphate, dibasic:
 ORAL (LD50): Acute: 17000 mg/kg [Rat].
Phosphoric acid:
 ORAL (LD50): Acute: 1530 mg/kg [Rat].
 DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].
Polyvinyl pyrrolidone:
 ORAL (LD50): Acute: 100000 mg/kg [Rat].
- Chronic Effects on Humans** : Not available.
- Other Toxic Effects on Humans** : Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

12. Ecological Information

- Organics Readily Degradable (70%)** : Readily biodegradable (7 day(s)).
- BOD5 and COD** : The BOD is 110 g/l [5 day(s)].
 The COD is 104 g/l.
- Ecotoxicity** : Ecotoxicity in water (LC50): 54000 mg/l, 96 hour(s) [Fish]. (Glycerol). 237 mg/l, 48 hour(s) [Daphnia]. (Sodium phosphate, dibasic). 100 mg/l, 96 hour(s) [Fish]. (Phosphoric acid).
- 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); exempted as a combustible liquid.



- TDG Classification** : TDG Class 3: Flammable liquid.
- ADR/RID Classification** : ADR Class: Flammable liquid with a flash point between 21°C (70°F) and 100°C (212°F).
- IMO/IMDG Classification** : CLASS 3.3: Flammable liquid (High flashpoint group of liquids having a flashpoint of 23°C (73°F) up to, and including, 61°C (141°F) c.c.).

Proper Shipping Name : TURPENTINE SUBSTITUTE
UN number : UN1300
Packing Group : III
ICAO/IATA Classification : IATA Class 3: Flammable liquid.
Proper Shipping Name : TURPENTINE SUBSTITUTE
UN number : UN1300
Packing Group : III

15. Regulatory Information

HCS Classification : CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

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: Stoddard solvent: Fire Hazard, Immediate (Acute) Health Hazard; Phosphoric acid: Immediate (Acute) Health Hazard; Sodium hexametaphosphate: 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 B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).
 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) : R10- Flammable.
 R65- Harmful: may cause lung damage if swallowed.

State Regulations : Pennsylvania RTK: Stoddard solvent; Glycerol: (not a special hazard); Sodium phosphate, dibasic
 Florida: Stoddard solvent
 Massachusetts RTK: Stoddard solvent; Glycerol; Sodium phosphate, dibasic
 New Jersey: Stoddard solvent; Sodium phosphate, dibasic
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene
 California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Benzene

16. Other Information

Label Requirements : COMBUSTIBLE LIQUID AND VAPOR.
 NOTICE! DELIBERATE CONCENTRATION AND INHALATION OF VAPORS MAY BE HARMFUL OR FATAL.
 MAY BE HARMFUL IF SWALLOWED.
 CAUSES SKIN AND EYE IRRITATION.
 HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS.
 CAN CAUSE CNS EFFECTS.

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

Health	2
Fire Hazard	2
Reactivity	0
Personal Protection	B

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



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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