

Material Safety Data Sheet

Kodak Polychrome
GRAPHICS

Kodak Fixer Additive, MX 1860

1. Chemical Product and Company Identification

Common Name : Kodak Fixer Additive, MX 1860

Synonym : PDC 1671

Catalog number : 5278023

Area of Application : Industrial applications. Graphic Arts Imaging.

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

MSDS#	119
Version	2.61
Validation Date	2003-07-21
Responsible Name	Kodak Polychrome Graphics

KPG# **20181**

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@kpggraphics.com, Fax: (770) 232-2150

2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Quaternary coco alkylamine ethoxylate	61791-10-4	80	Not available.
2) Ethoxylated cocoalkyl amines	61791-14-8	<2	Not available.

3. Hazards Identification

Physical State and Appearance : Liquid.

Emergency Overview : DANGER !
CAUSES SEVERE EYE IRRITATION.
CAUSES SKIN IRRITATION.
HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.
THE TOXICOLOGICAL PROPERTIES OF A MINOR COMPONENT OF THIS MIXTURE HAVE NOT BEEN INVESTIGATED.

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

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

Potential Acute Health Effects

Eyes : Very hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin : Slightly hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation : Low hazard for recommended handling

Ingestion : Hazardous in case of ingestion.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS:** Not available.
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)

Continued on Next Page

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. If irritation persists, seek medical attention.
- 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. Get medical attention if symptoms occur.

5. Fire Fighting Measures

- Flammability of the Product** : May be combustible at high temperature.
- Auto-Ignition Temperature** : >150°C (302°F)
- Flash Points** : CLOSED CUP: >100°C (212°F). (Pensky-Martens.)
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO₂), Ammonia.
- 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, 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. 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.

7. Handling and Storage

- Handling** : Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing vapors or spray mists. 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** : Safety glasses.
- Body** : Synthetic apron.
- Respiratory** : Wear appropriate respirator when ventilation is inadequate.
- Hands** : Gloves (impervious).
- Feet** : Not applicable.

Protective Clothing
(Pictograms) :



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

1) Quaternary coco alkylamine ethoxylate Not available.
2) Ethoxylated cocoalkyl amines Not available.

Consult local authorities for acceptable exposure limits.

9. Physical and Chemical Properties

Physical State and Appearance : Liquid. Odor : Fruity.
Color : Yellowish-brown.

pH : 6 to 9 (Conc. (% w/w): 1) [Basic.]

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

Melting/Freezing Point : 2°C (35.6°F)

Vapor Pressure : Not available.

Vapor Density : Not available.

VOC Calculated : Not available.

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 oxidising agents.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO₂), Ammonia.

Hazardous Polymerization : Will not occur.

11. Toxicological Information

Toxicity to Animals : **Quaternary coco alkylamine ethoxylate:**
ORAL (LD50): Acute: >2500 mg/kg [Rat].
Ethoxylated cocoalkyl amines
LD50: Not available.
LC50: Not available.

Chronic Effects on Humans : Not available.

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

12. Ecological Information

- Organics Readily Degradable (70%)** : Not available.
- Ecotoxicity** : Ecotoxicity in water (LC50): 24 mg/l, 96 hours [Fish (Rainbow trout (Oncorhynchus mykiss))]. (Quaternary coco alkylamine ethoxylate). 1.6 mg/l, 72 hours [Algae]. (Quaternary coco alkylamine ethoxylate). 13 mg/l, 48 hours [Daphnia]. (Quaternary coco alkylamine ethoxylate).

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 a TDG controlled material.
- ADR/RID Classification** : Not controlled under ADR of the EEC.
- IMO/IMDG Classification** : Not controlled under IMDG.
- ICAO/IATA Classification** : Not controlled under IATA.

15. Regulatory Information

- HCS Classification** : Class: Irritating substance.
- U.S. Federal Regulations** : TSCA 8(b) inventory: Quaternary coco alkylamine ethoxylate; Ethoxylated cocoalkyl amines
 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: No products were found.
 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)** : WHMIS 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: Quaternary coco alkylamine ethoxylate; Ethoxylated cocoalkyl amines
- DSCL (EEC)** : R41- Risk of serious damage to eyes.
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- State Regulations** : No products were found.
 California prop. 65: No products were found.

16. Other Information

Label Requirements : CAUSES SEVERE EYE IRRITATION.
 CAUSES SKIN IRRITATION.
 HARMFUL IF SWALLOWED.
 MAY CAUSE ALLERGIC SKIN REACTION.
 THE TOXICOLOGICAL PROPERTIES OF A MINOR COMPONENT OF THIS MIXTURE HAVE NOT BEEN INVESTIGATED.

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 2003-07-21.

Verified by Kodak Polychrome Graphics.

Printed 2003-07-22.

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

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.

FOR INDUSTRIAL USE ONLY