

MATERIAL SAFETY DATA SHEET

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Version: 1.0
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**1. Identification of the substance/preparation and the company/undertaking**

Product name: KODAK X-OMAT EX II Developer, Part C

Product code: 1135433

Manufacturer: EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York, 14650

Supplier: EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York, 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For other information or to request an MSDS, call (800) 242-2424.

Synonyms: PCD 6422

2. Hazards identification

CONTAINS: Diethylene glycol (111-46-6)

WARNING!

CAN CAUSE KIDNEY DAMAGE AND CNS EFFECTS FOLLOWING INGESTION

HARMFUL IF SWALLOWED

MAY FORM EXPLOSIVE PEROXIDES

HMIS Hazard Ratings:

Health - 1*, Flammability - 1, Reactivity (Stability) - 0

NFPA Hazard Ratings:

Health - 2, Flammability - 1, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight %	Components (CAS-No.)
> 95	Diethylene glycol (111-46-6)
< 1	5H-Tetrazole-5-thione, 1,2-dihydro-1-phenyl- (86-93-1)
< 1	1H-Indazole, 5-nitro- (5401-94-5)

4. First aid measures

Inhalation: If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

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Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin: Wash off with soap and water. Get medical attention if symptoms occur.

Ingestion: Only induce vomiting at the instruction of medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing Media: water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: May form peroxides of unknown stability.

6. Accidental release measures

Methods for cleaning up: Consult state or local regulatory authorities before flushing to sewer with large amounts of water. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

7. Handling and storage

Personal precautions: Avoid prolonged or repeated breathing of mist or vapour. Avoid contact with eyes and prolonged or repeated contact with skin. Ensure adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: If peroxide formation is suspected, do not open or move container. Keep from contact with oxidizing materials. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Do not distill or allow to evaporate to near dryness.

Storage: Keep container tightly closed. Protect from light. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls / personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Diethylene glycol	WEEL	Time Weighted Average (TWA):	10 mg/m ³

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Respiratory protection: None should be needed.

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Eye protection: It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

Skin and body protection: It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities.

9. Physical and Chemical Properties

Physical form: liquid

Colour: orange

Odour: slight

Specific gravity: 1.12

Vapour pressure: 24 mbar (18.0 mm Hg)

Relative vapour density: 0.06

Volatile fraction by weight: not available

Boiling point/range: > 100.0 °C (> 212.0 °F)

Water solubility: complete

pH: 3.1

Flash point: does not flash

10. Stability and reactivity

Stability: Stable; however, forms peroxides of unknown stability.

Incompatibility: Strong oxidizing agents, Strong acids, strong bases, sodium hydroxide.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice :

Contains: Diethylene glycol. Can cause kidney damage and CNS effects following ingestion. Repeated oral exposure to high doses can cause liver damage.

Inhalation: Low hazard for recommended handling.

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Eyes: No specific hazard known. May cause transient irritation.

Skin: Expected to be a low hazard for recommended handling. May be absorbed through intact skin leading to harmful effects.

Ingestion: Harmful if swallowed. Can cause kidney damage and CNS effects following ingestion.

12. Ecological information

Potential Toxicity:

Fish LC50: > 100 mg/l

Daphnid EC50: > 100 mg/l

Algal IC50: > 100 mg/l

Waste treatment organisms EC50: > 100 mg/l

Organics Readily Degradable: Readily biodegradable

Potential Bioaccumulation: log Pow < 1

COD (approximate): 1731 g/l

BOD (approximate): 166 g/l

13. Disposal considerations

Discharge, treatment, or disposal may be subject to national, state, or local laws. Consult state or local regulatory authorities before flushing to sewer with large amounts of water. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated for all modes of transportation.

For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (585) 722-2400 between 8 a.m. and 5 p.m. (Eastern Standard Time), Monday through Friday. In Canada: General Shipping Information, call: (416) 766-8233.

15. Regulatory information

U.S. California Prop. 65: none

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC): none

American Conference of Governmental Industrial Hygienists (ACGIH): none

U.S. National Toxicology Program (NTP): none

U.S. Occupational Safety and Health Administration (OSHA): none

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Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: none

16. Other information

US/Canadian Label Statements:

CONTAINS: Diethylene glycol (111-46-6)

WARNING!

**CAN CAUSE KIDNEY DAMAGE AND CNS EFFECTS FOLLOWING INGESTION
HARMFUL IF SWALLOWED
MAY FORM EXPLOSIVE PEROXIDES**

Avoid prolonged or repeated breathing of mist or vapour.
Avoid contact with eyes and prolonged or repeated contact with skin.
Store away from heat and light.
Do not allow to evaporate to near dryness.
Ensure adequate ventilation.
Keep container tightly closed.
Wash thoroughly after handling.

FIRST AID: If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

IN CASE OF FIRE: Use water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam

IN CASE OF SPILL: Absorb spill with inert material, then place in a chemical waste container. Flush residual spill or area with water. For large spills, dike for later disposal. Prevent runoff from entering drains, sewers, and streams.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-1, F-1, C-1E