

Material Safety Data Sheet

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1. Identification of the substance/preparation and of the company/undertaking

Product name: KODAK PROFESSIONAL Final Rinse and Replenisher, Process E-6 and Process E-6AR

Product code: 8140279

Supplier: KODAK AUSTRALASIA Pty. Ltd., Level 2, 436 Johnston Street, Abbotsford, Victoria, 3067

For Chemical Emergency Information, in Australia call 1800 033111 (24 hour service Australia-wide); in New Zealand call 0800 734 607 (24 hour service); in Asia call +86 21 63500836

For Other Information, call 61 3 8417 8000.

Synonyms: PCD 6326

Product Use: photographic processing chemical, For industrial use only.

2. Hazards identification

STATEMENT OF HAZARDOUS NATURE: Hazardous according to criteria of Australian Safety and Compensation Council

Irritant. Irritating to eyes and skin. May cause sensitization by skin contact.

Contains no scheduled poisons

3. Composition/information on ingredients

Weight %	Components (CAS-No.)
1 - 5	Octylphenoxypolyethoxyethanol (9036-19-5)
1 - 5	Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)
0.1 - <0.3	Isothiazolone derivatives (not applicable)
0.1 - <0.25	Ethanol (64-17-5)

4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin: 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 re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

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Hazchem Code: Not specified

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Fire-Fighting Procedures: None (noncombustible)

Hazardous Combustion Products: None (noncombustible)

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Contaminated absorbent should be disposed of in accordance with local regulations. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

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

Prevention of Fire and Explosion: No special technical protective measures required.

Storage: Keep container tightly closed.

8. Exposure controls/personal protection

Occupational exposure controls: Not established

Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

9. Physical and chemical properties

Physical form: liquid

Colour: light green

Odour: slight

Specific gravity: 1.005

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Vapour pressure: 24 mbar (18.0 mm Hg)

Vapour density: 0.6

Volatile fraction by weight: 95 - 100 %

Boiling point/boiling range: > 100 °C (> 212.0 °F) (estimated)

Water solubility: complete

pH: 4.6

Flash point: does not flash

Flammability Limits: Not specified

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: None with common materials and contaminants with which the material may reasonably come into contact.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Octylphenoxyethoxyethanol. The toxicological properties of this material have not been fully investigated and its handling and use may be hazardous.

Contains: Ethanol. Prolonged exposure to high vapour concentrations or ingestion of ethanol may cause irritation, headache, drowsiness, fatigue, and narcosis. Can cause CNS effects.

Inhalation: Expected to be a low hazard for recommended handling.

Eyes: Irritating to eyes.

Skin: Irritating to skin. May cause sensitization by skin contact.

Ingestion: Expected to be a low hazard for recommended handling.

Data for Octylphenoxyethoxyethanol (CAS 9036-19-5):

Acute Toxicity Data:

Oral LD50 (rat): 800 - 1,600 mg/kg

- Dermal LD50: 12,000 mg/kg
- Skin irritation: slight
- Skin Sensitization (human): negative

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- Eye irritation: severe

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Developmental Toxicity Data:

Dermal (female rat): LOEL for developmental toxicity; 400mg/kg/day

- Oral (female rat): NOAEL for developmental toxicity; 600ppm

Data for Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (CAS 577-11-7):

Acute Toxicity Data:

Oral LD50 (rat): 800 - 1,600 mg/kg

- Dermal LD50: > 1,000 mg/kg
- Skin irritation: Severe skin irritation
- Skin Sensitization (human): negative
- Eye irritation (unwashed eyes): Severe eye irritation
- Eye irritation (washed eyes): moderate

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Repeated dose toxicity:

- Oral (90 days, male and female rat): NOAEL; 1 % in diet

Data for Isothiazolone derivatives:

Acute Toxicity Data:

Oral LD50 (rat): 40 - 78.5 mg/kg

- Inhalation LC50 (rat): 1.4 - 1.5 mg/l / 4 hr (aerosol)
- Dermal LD50 (rabbit): 87 mg/kg
- Skin irritation: Corrosive (0.6% active ingredient)
- Skin irritation: moderate (0.3% active ingredient)
- Skin irritation: none (0.06% active ingredient)
- Skin Sensitization (guinea pig): Causes sensitization.
- Eye irritation (1.7% active ingredient): Corrosive
- Eye irritation (0.3 - 0.6% active ingredient): Irritating to eyes.
- Eye irritation (0.06% active ingredient): none

Mutagenicity/Genotoxicity Data:

Salmonella typhimurium assay (Ames test) (TA100): positive (in absence of activation)

- Mouse lymphoma assay: positive (in absence of activation)
- Unscheduled DNA synthesis (UDS) assay: negative
- Chromosomal aberration assay in vivo: negative

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Repeated dose toxicity:

- Oral (28-day, rabbit): NOEL; 0.4 mg/kg/day
- Oral (13 week, rat): NOEL; 8 mg/kg/day

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- Inhalation (14-day, rat): NOEL; < 0.03 mg/l/6 hours/day

Reproductive Toxicity Data:

Oral (20 mg/kg/day, rat): NOEL for reproductive toxicity; 20 mg/kg/day

Carcinogenicity:

- Oral study (rat, 30 months): ; 400 mg/kg/day (highest dose tested)

Data for Ethanol (CAS 64-17-5):

Acute Toxicity Data:

Oral LD50 (mouse): > 8,000 mg/kg

- Oral LD50 (female rat): > 5,000 mg/kg
- Inhalation LC50 (rat): 20000 ppm / 10 hr
- Skin irritation: moderate
- Eye irritation: mild

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): > 100 mg/l

Persistence and degradability: Readily biodegradable.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. 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 more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	All listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed

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NLP	Listed
AICS	Not all listed
IECS	All listed
ENCS	Not all listed
ECI	All listed
NZIoC	All listed
PICCS	All listed
TSCA 12(b)	Listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

Poisons Schedule: Not specified

Australian Safety and Compensation Council: none

Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans: Ethanol
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Australia National Model Regulations for the Control of Scheduled Carcinogenic Substances	No components listed

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture. The actual label information will depend upon the intended use of the product. Australian Safety and Compensation Council labeling appears for commercial/industrial use.

Australian Safety and Compensation Council Labeling:

Contains: Isothiazolone derivatives <0.3%

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pH: 3 - 6



Symbol/Indication of Danger:	Xi: Irritant
Risk Phrases:	R36/38: Irritating to eyes and skin. R43: May cause sensitization by skin contact.
Safety Phrases:	S24: Avoid contact with skin. S36/37: Wear suitable protective clothing and gloves.

National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:

CONTAINS NO SCHEDULED POISONS

First aid: No first aid instructions are recommended for labelling purposes.

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-2, F-0, C-0