

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

Product name: KODAK EKTACOLOR RA Developer Replenisher RT, Part C

Product code: 8477184 - Part C

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

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

For further information about this product, call (800) 242-2424.

Synonyms: PCD 6087

Product Use: photographic processing chemical (developer/activator), For industrial use only.

2. Hazards identification

CONTAINS: Potassium hydroxide (1310-58-3), Potassium carbonate (584-08-7)

DANGER! CAUSES EYE BURNS HARMFUL IF SWALLOWED DUST, MIST OR VAPOUR IRRITATING TO THE EYES AND RESPIRATORY TRACT

HMIS III Hazard Ratings: Health - 3, Flammability - 0, Reactivity (Stability) - 0

NFPA Hazard Ratings: Health - 3, Flammability - 0, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) 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. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

| Weight percent | Components - (CAS-No.) |
|-------------------|---------------------------------|
| 30 - 35 | Potassium carbonate (584-08-7) |
| 1 - < 3 | Potassium hydroxide (1310-58-3) |

4. First aid measures

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

Eyes: Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING.



Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

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

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

Notes to physician:

Treatment: Strong alkalis bind tissue protein. Following initial flushing of the eye with water, continued irrigation of the eye with saline is recommended.

5. Fire-fighting measures

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. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Avoid breathing mist or vapour at concentrations greater than the exposure limits. Do not get in eyes and avoid contact with skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

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

8. Exposure controls/personal protection

| Occupational expos | ure controls | | |
|---------------------|--------------|---------------------|---------|
| Chemical Name | Regulatory | Value Type | Value |
| | List | | |
| Potassium hydroxide | ACGIH | Ceiling Limit Value | 2 mg/m3 |

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.

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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. Respirator type: N95 Particulate Filter. 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) and a face shield.

Hand protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

| 9. | Phy | ysical | and | chemical | properties |
|----|-----|--------|-----|----------|------------|
|----|-----|--------|-----|----------|------------|

Physical form: liquid Colour: colourless Odour: odourless Specific gravity: 1.37 Vapour pressure (at 20.0 °C (68.0 °F)) : 24 mbar (18.0 mm Hg) Vapour density: 0.6 Volatile fraction by weight: 60 - 65 % Boiling point/boiling range: > 100 °C (> 212.0 °F) Water solubility: complete pH: 14

Flash point: does not flash

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents, Acids, Metals.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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Inhalation: Airborne dust/mist/vapor irritating.

Eyes: Causes eye burns. Airborne dust/mist/vapor irritating.

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

Ingestion: Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.

Acute Toxicity Data:

- Skin irritation: none
- Eye irritation: severe

Data for Potassium carbonate (CAS 584-08-7):

Acute Toxicity Data: Oral LD50 (rat): 1,870 mg/kg

Data for Potassium hydroxide (CAS 1310-58-3):

Acute Toxicity Data:

Oral LD50 (rat): 273 mg/kg

• Skin irritation: severe

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

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

| IATA: | UN number: | UN1814 |
|-------|-----------------------|------------------------------|
| | Proper shipping name: | POTASSIUM HYDROXIDE SOLUTION |
| | Class: | 8 |

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| | Packaging group: | III |
|---------|---|---|
| IMDG: | UN number: Proper shipping name: Class: Packaging group: | UN1814 POTASSIUM HYDROXIDE SOLUTION 8 III |
| US DOT: | UN number: Proper shipping name: Class: Packaging group: | UN1814 POTASSIUM HYDROXIDE, SOLUTION 8 III |

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

| Regulatory List | Notification status |
|-----------------|---------------------|
| TSCA | All listed |
| DSL | All listed |
| NDSL | None listed |
| EINECS | All listed |
| ELINCS | None listed |
| NLP | None listed |
| AICS | All listed |
| IECS | All listed |
| ENCS | All listed |
| ECI | All listed |
| NZIoC | All listed |
| PICCS | All 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.

Other regulations

| American Conference of Governmental Industrial Hygienists (ACGIH): | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
|---|---|
| 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 |

Material Safety Data Sheet

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Kodak

- U.S. National Toxicology Program (NTP):
- U.S. Occupational Safety and Health Administration (OSHA):
- California Prop. 65
- U.S. CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):
- U.S. CERCLA/SARA Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):
- U.S. CERCLA/SARA Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):
- U.S. California 8 CCR Section 339 Director's List of Hazardous Substances:
- U.S. California 8 CCR Section 5200-5220 Specifically Regulated Carcinogens:
- U.S. California 8 CCR Section 5203 Carcinogens:
- U.S. California 8 CCR Section 5209 Carcinogens:
- U.S. Massachusetts General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):
- U.S. Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):
- U.S. New Jersey Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):
- U.S. Pennsylvania Part XIII. Worker and Community Right-to-Know Act (Chapters 301-323):
- U.S. Rhode Island Title 28 Labor and Labor Relations (Chapters 28-21 Hazardous Substance Right-to-Know

carcinogen by IARC.

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.

- 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.
- This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Potassium hydroxide

- No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
- No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.

Potassium hydroxide

- No components found on the California Specifically Regulated Carcinogens List.
- No components found on the California Section 5203 Carcinogens List.
- No components found on the California Section 5209 Carcinogens List.

Potassium hydroxide

Potassium hydroxide

Potassium hydroxide

Potassium hydroxide, Potassium carbonate, Water

Potassium hydroxide

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Act):

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.

US/Canadian Label Statements:

KODAK EKTACOLOR RA Developer Replenisher RT, Part C CONTAINS: Potassium hydroxide (1310-58-3), Potassium carbonate (584-08-7). DANGER! CAUSES EYE BURNS. HARMFUL IF SWALLOWED. DUST, MIST OR VAPOUR IRRITATING TO THE EYES AND RESPIRATORY TRACT.

Avoid breathing mist or vapour at concentrations greater than the exposure limits. Do not get in eyes and avoid contact with skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling. FIRST AID: If inhaled, remove to fresh air. Get medical attention if symptoms occur. Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately. Note to **Physicians:** Strong alkalis bind tissue protein. Following initial flushing of the eve with water, continued irrigation of the eye with saline is recommended. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. IN CASE OF FIRE: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Additional Components Include: Water (7732-18-5), Potassium chloride (7447-40-7), 1-hydroxyethylidene-1,1diphosphonic acid (2809-21-4).

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-3, F-0, C-0