

## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 1/7



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

**Product name:** KODAK RP X-OMAT Developer Starter

**Product code:** 1332642

**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 5607

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

### 2. Hazards identification

**EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING**

**HMIS III Hazard Ratings:** Health - 1, 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 % | Components - (CAS-No.)     |
|----------|----------------------------|
| 10 - 15  | Sodium bromide (7647-15-6) |

### 4. First aid measures

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

**Eyes:** Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. If easy to do, remove contact lens, if worn.

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

**Ingestion:** Get medical attention if symptoms occur.

### 5. Fire-fighting measures

## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 2/7



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

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** None (noncombustible), (see also Hazardous Decomposition Products sections.)

**Unusual Fire and Explosion Hazards:** None.

### 6. Accidental release measures

Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination.

### 7. Handling and storage

**Personal precautions:** Avoid breathing 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 away from incompatible substances (see Incompatibility section.)

### 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.

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

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

### 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** colourless

**Odour:** odourless

**Specific gravity:** 1.106

## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 3/7



**Vapour pressure (at 20.0 °C (68.0 °F)) :** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

**Volatile fraction by weight:** 85 - 90 %

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

**Water solubility:** completely soluble

**pH:** 6.6

**Flash point:** does not flash

### 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:** hydrogen bromide

**Hazardous Polymerization:** Hazardous polymerisation does not occur.

### 11. Toxicological information

#### Effects of Exposure

##### General advice:

Contains: Sodium bromide. Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.

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

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

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

**Ingestion:** Expected to be a low ingestion hazard.

#### Data for Sodium bromide (CAS 7647-15-6):

##### Acute Toxicity Data:

Oral LD50 (rat): 4,200 mg/kg

- Skin irritation: none
- Skin Sensitization: none
- Eye irritation: slight



## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 4/7



### 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 |
| Toxicity to algae (IC50):           | > 100 mg/l |
| Toxicity to other organisms (EC50): | > 100 mg/l |

**Persistence and degradability:** Not readily biodegradable.

**Chemical Oxygen Demand (COD):** ca. 14 g/l

**Biochemical Oxygen Demand (BOD):** ca. 0 g/l

### 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](http://www.kodak.com/go/ship).

### 15. Regulatory information

#### Notification status

| Regulatory List | Notification status |
|-----------------|---------------------|
| TSCA            | All listed          |
| DSL             | All listed          |
| NDSL            | None listed         |
| EINECS          | Not all listed      |
| ELINCS          | None listed         |
| NLP             | Listed              |
| AICS            | All listed          |
| IECS            | All listed          |

## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 5/7



|       |            |
|-------|------------|
| 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 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.             |
| California Prop. 65  | This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.                     |
| U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):   | No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.  |
| U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities): | No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.  |
| U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):   | No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.   |
| U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:   | No components found on the California Director's List of Hazardous  |

## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 6/7



| Substances.   |   |
|---|---|
| U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:   | No components found on the California Specifically Regulated Carcinogens List.                    |
| U.S. - California - 8 CCR Section 5203 Carcinogens:   | No components found on the California Section 5203 Carcinogens List.                              |
| U.S. - California - 8 CCR Section 5209 Carcinogens:   | No components found on the California Section 5209 Carcinogens List.                              |
| U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law): | No components regulated under the Massachusetts Hazardous Substances Disclosure by Employers Law. |
| U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):   | No components found on the Minnesota Employee Right-to-Know List of Hazardous Substances.         |
| U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):  | No components regulated under the New Jersey Worker and Community Right-to-Know Act.              |
| U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapters 301-323):   | Sodium bromide, Water   |
| U.S. - Rhode Island - Title 28 Labor and Labor Relations (Chapters 28-21 Hazardous Substance Right-to-Know Act):                        | No components regulated under the Rhode Island Hazardous Substance Right-to-Know 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 RP X-OMAT Developer Starter

##### EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING.

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. **FIRST AID:** If inhaled, remove to fresh air. Any material that contacts the eye should be washed out immediately with water. Wash off with soap and water. Get medical attention if symptoms occur. 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 inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Additional Components Include: Water (7732-18-5), Sodium bromide (7647-15-6), Polyethylene glycol (25322-68-3), Cationic surfactant (121-54-0), Isopropanol (67-63-0).



## Material Safety Data Sheet

Revision Date: 10/01/2009  
Z17000000828/Version: 1.4  
Print Date: 04/07/2010  
Page: 7/7

---

The Kodak logo is displayed in a bold, sans-serif font.

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-0, C-0