

# KODAK VERSAMAT 641 Developer Replenisher, Part B

## MATERIAL SAFETY DATA SHEET

200000469/F/USA

Approval Date: 02/13/2001

Print Date: 02/23/2002

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK VERSAMAT 641 Developer Replenisher, Part B

Catalog Number(s): 188 1275 - To Make 20 gallon (U.S.)

Manufacturer/Supplier: EASTMAN KODAK COMPANY, Rochester, New York 14650

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

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

Synonym(s): KAN 123768; PCD 10900; C-0162.000

---

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

100 Sodium carbonate, monohydrate (005968-11-6)

---

### 3. HAZARDS IDENTIFICATION

WARNING!

HARMFUL IF SWALLOWED

DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SKIN AND EYE IRRITATION

HMIS Hazard Ratings:

Health - 1, Flammability - 0, Reactivity - 0, Personal Protection - C

NFPA Hazard Ratings:

Health - 1, Flammability - 0, 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. The personal

protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. 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.

---

#### 4. FIRST-AID MEASURES

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

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**Skin:** Immediately remove contaminated clothing and shoes and wash with soap and plenty of water. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

---

#### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use appropriate agent for adjacent fire.

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

**Hazardous Combustion Products:** None (noncombustible).

**Unusual Fire and Explosion Hazards:** None

---

#### 6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water.

---

#### 7. HANDLING AND STORAGE

**Personal Precautionary Measures:** Avoid prolonged or repeated breathing of dust. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** No special precautionary measures should be

needed under anticipated conditions of use.

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

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Not established

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: N95 Particulate Filter. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

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

Skin Protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid

Color: White

Odor: Odorless

Specific Gravity (water = 1): Not applicable

Vapor Pressure: Negligible

Vapor Density (Air = 1): Not applicable

Volatile Fraction by Weight: Not applicable

Melting Point: Not applicable

Solubility in Water: Appreciable

pH: Not applicable

Flash Point: Not applicable, noncombustible solid

---

## 10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility: Strong acids, aluminum, fluorides.

Hazardous Polymerization: Will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

### Effects of Exposure:

Inhalation: Airborne dust irritating.

Eyes: Causes irritation. However, immediate flushing of the eyes with water will minimize any irritative effect.

Skin: Causes irritation.

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

### Acute Toxicity Data:

Oral LD-50: 1600-3200 mg/kg

Skin irritation: slight irritation

---

## 12. ECOLOGICAL INFORMATION

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

### Potential Toxicity

Fish LC50 mg/l: >100

Daphnid EC50 mg/l: >100

Algal IC50 mg/l: Not available

Organics Readily Degradable (>70%): Not applicable

Potential Bioaccumulation: Log Pow <1

COD (approximate g/g): 0

BOD5 (approximate g/g): 0

### Potential Toxicity

Waste treatment microorganisms: Not available

EC50 (mg/l):

### 13. DISPOSAL CONSIDERATIONS

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

-----

### 14. TRANSPORT INFORMATION

- 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.
- 

### 15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
  - Material(s) known to the State of California to cause adverse reproductive effects: 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
    - National Toxicology Program (NTP): None
    - Occupational Safety and Health Administration (OSHA): None
  - Chemical(s) subject to the reporting requirements of 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:

WARNING!

HARMFUL IF SWALLOWED

DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SKIN AND EYE IRRITATION

Avoid prolonged or repeated breathing of dust.

Avoid contact with eyes, skin, and clothing.

Use with adequate ventilation.

Wash thoroughly after handling.

FIRST AID: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. In case of contact,

immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

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.

-----  
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.  
-----

R-1, S-2, F-0, C-0

[please read the security and privacy notice](#)