

# KODAK VERSAMAT 641 Developer Starter

## MATERIAL SAFETY DATA SHEET

200000470/F/USA

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK VERSAMAT 641 Developer Starter

Catalog Number(s): 160 8439 - To Make 9 1/2 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 427835; PCD 4939; C-0163.000

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

45-50 Potassium bromide (007758-02-3)

45-50 Sodium bisulfate (007681-38-1)

1-5 Sodium sulfate (007757-82-6)

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### 3. HAZARDS IDENTIFICATION

CONTAINS: Sodium bisulfate (007681-38-1); Potassium bromide (007758-02-3)

DANGER!

HARMFUL IF SWALLOWED

CAUSES SEVERE EYE BURNS

DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SKIN IRRITATION OR BURNS

HMIS Hazard Ratings:

Health - 3 , Flammability - 0, Reactivity - 0, Personal Protection - B

NFPA Hazard Ratings:

Health - 2, 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.

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#### 4. FIRST-AID MEASURES

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

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

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. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

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#### 5. FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate agent for adjacent fire.

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 section)

Unusual Fire and Explosion Hazards: None

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#### 6. ACCIDENTAL RELEASE MEASURES

Flush to sewer with large amounts of water. Otherwise, sweep up and place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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## 7. HANDLING AND STORAGE

Personal Precautionary Measures: Avoid breathing dust. Do not get in eyes, on skin, on 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).

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## 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. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

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) and a face shield.

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

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid

Color: White

Odor: Odorless

Specific Gravity (water = 1): Not available

Vapor Pressure: Negligible

Vapor Density (Air = 1): Not applicable

Volatile Fraction by Weight: Not applicable

Melting Point: Not available

Solubility in Water: Complete

pH: Not applicable

Flash Point: Not applicable, noncombustible solid

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## 10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong acids

Hazardous Decomposition Products: Hydrogen bromide, Sulfur dioxide

Hazardous Polymerization: Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

General:

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

Inhalation: Airborne dust irritating.

Eyes: Causes severe burns.

Skin: Causes irritation or burns.

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

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## 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 EC50 (mg/l):	>100

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### 13. DISPOSAL CONSIDERATIONS

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

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### 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.

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### 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

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### 16. OTHER INFORMATION

US/Canadian Label Statements:

CONTAINS: Sodium bisulfate (007681-38-1); Potassium bromide (007758-02-3)  
DANGER!  
HARMFUL IF SWALLOWED  
CAUSES SKIN IRRITATION OR BURNS  
DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT  
CAUSES SEVERE EYE BURNS

Avoid breathing dust.  
Do not get in eyes, on skin, on 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 eye contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of skin contact, immediately wash with soap and plenty of water. Get medical attention immediately. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

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

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.

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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.  
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R-2, S-3, F-0, C-0

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