

# MATERIAL SAFETY DATA SHEET

Revision Date: 06/11/2003  
Version: 1.1  
Print Date: 02/22/2004  
Page: 1/5

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

**Product name:** KODAK FLEXICOLOR Developer Starter, Process C-41

**Product code:** 1953009

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

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

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

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

**Synonyms:** PCD 5108

## 2. Hazards identification

**CONTAINS:** Sodium sulfite (7757-83-7)

**WARNING!**  
**MAY BE HARMFUL IF SWALLOWED.**

**HMIS Hazard Ratings:**  
Health - 1, Flammability - 0, Reactivity (Stability) - 0

**NFPA Hazard Ratings:**  
Health - 0, 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. 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.

## 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
65 - 70	Water (7732-18-5)
10 - 15	Carbonic acid, monopotassium salt (298-14-6)
10 - 15	Carbonic acid, dipotassium salt (584-08-7)
1 - 5	Sodium bromide (7647-15-6)
1 - 5	Glycine, N,N-bis(2-(bis(carboxymethyl)amino)ethyl)-, pentasodium salt (140-01-2)
1 - 5	Sodium sulfite (7757-83-7)

## 4. First aid measures

# MATERIAL SAFETY DATA SHEET

Revision Date: 06/11/2003

Print Date: 02/22/2004

Page: 2/5

---

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

**Eyes:** Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

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

**Ingestion:** Drink 1 or 2 glasses of water. Seek medical advice. Never give anything by mouth to an unconscious person.

## 5. Fire-fighting measures

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

**Special Fire-Fighting Procedures:** None (noncombustible)

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

**Unusual Fire and Explosion Hazards:** None

## 6. Accidental release measures

**Methods for cleaning up:** Flush into sewer with plenty of water. Otherwise, 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 vapor. Avoid contact with eyes and prolonged or repeated contact with skin. 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.

## 8. Exposure controls / personal protection

**Occupational exposure controls:** Not established

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

**Respiratory protection:** None should be needed. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas. See Stability and Reactivity Section. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

**Eye protection:** It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

# MATERIAL SAFETY DATA SHEET

Revision Date: 06/11/2003

Print Date: 02/22/2004

Page: 3/5

---

**Skin and body protection:** It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities.

## 9. Physical and Chemical Properties

**Physical form:** liquid

**Colour:** colorless

**Odour:** slight amine

**Specific gravity:** 1.29

**Vapour pressure:** 23.4 mbar (17.6 mm Hg)

**Relative vapour density:** 0.6

**Volatile fraction by weight:** 65 - 70 %

**Boiling point/range:** > 100.0 °C (> 212.0 °F)

**Water solubility:** completely soluble

**pH:** 9.6

**Flash point:** none, noncombustible liquid

## 10. Stability and reactivity

**Stability:** Stable

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

**Hazardous Polymerization:** Will not occur.

## 11. Toxicological information

### Effects of Exposure

**Inhalation:** Expected to be a low hazard for usual industrial or commercial handling by trained personnel. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

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

# MATERIAL SAFETY DATA SHEET

Revision Date: 06/11/2003

Print Date: 02/22/2004

Page: 4/5

**Skin:** This material has a low potential to cause allergic skin reactions; however, cases of human skin sensitization have been reported.

**Ingestion:** May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

## 12. Ecological information

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

Potential Toxicity:

Fish LC50: > 100 mg/l

Daphnid EC50: > 100 mg/l

Algal IC50: 10 - 100 mg/l

Waste treatment organisms EC50: > 100 mg/l

Organics Readily Degradable: Not readily biodegradable.

Potential Bioaccumulation: log Pow < 1

COD (approximate): 36 g/l

BOD (approximate): 3 g/l

## 13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Consult state or local regulatory authorities before flushing to sewer with large amounts of water.

## 14. Transport information

Not regulated for all modes of transportation.

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. In Canada: General Shipping Information, call: (416) 766-8233.

## 15. Regulatory information

**U.S. California Prop. 65:** none

**Carcinogenicity Classification (components present at 0.1% or more):**

International Agency for Research on Cancer (IARC): Sodium sulfite 3 (Classification not possible from current data.)

American Conference of Governmental Industrial Hygienists (ACGIH): none

U.S. National Toxicology Program (NTP): none

U.S. Occupational Safety and Health Administration (OSHA): none

# MATERIAL SAFETY DATA SHEET

Revision Date: 06/11/2003

Print Date: 02/22/2004

Page: 5/5

---

**Chemical(s) subject to the reporting requirements of U.S. 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:

**CONTAINS: Sodium sulfite (7757-83-7)**

**WARNING!**  
**MAY BE HARMFUL IF SWALLOWED.**

Avoid breathing mist or vapor.  
Avoid contact with eyes and prolonged or repeated contact with skin.  
Use with adequate ventilation.  
Wash thoroughly after handling.

**FIRST AID:** If swallowed, seek medical advice. Never give anything by mouth to an unconscious person.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

---

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