



KODAK Fixer Wash System Cleaner

MATERIAL SAFETY DATA SHEET

200000842/F/USA

Approval Date: 07/08/1998

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK Fixer Wash System Cleaner

Catalog Number(s): 139 5110 - To Make 2 1/2 gallons (U.S.)
 857 1572 - To Make 2 1/2 gallons (U.S.)

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

For Emergency Health, Safety & Environmental Information, call (716) 722-5151

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

Synonym(s): Concentrate: KAN 355160; PCD 4093; F-0081.200
 Working solution: KAN 966533

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

Concentrate:

90-95 Sodium sesquicarbonate (000533-96-0)
5-10 Ethylenediaminetetraacetic acid tetrasodium salt (000064-02-8)
< 1 Anionic surfactant (000151-21-3)

Working solution:

90-95 Water (007732-18-5)
1-5 Sodium sesquicarbonate (000533-96-0)
< 1 Ethylenediaminetetraacetic acid tetrasodium salt (000064-02-8)

3. HAZARDS IDENTIFICATION

Concentrate:

CONTAINS: Sodium sesquicarbonate (000533-96-0)
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 - B

NFPA Hazard Ratings:

Health - 1, Flammability - 0, Reactivity (Stability) - 0

Working solution:

LOW HAZARD FOR RECOMMENDED HANDLING

HMIS Hazard Ratings:

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

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. 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:

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

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

Skin:

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

Working solution: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion:

Concentrate: 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.

Working solution: Drink 1-2 glasses of water. Seek medical attention. 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:

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

Working solution: None (noncombustible)

Hazardous Combustion Products:

Concentrate: None (noncombustible) (see also Hazardous Decomposition Products section)

Working solution: None (noncombustible)

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Concentrate: 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.

Working solution: Flush to sewer with large amounts of water. Clean surface thoroughly to remove residual contamination. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

7. HANDLING AND STORAGE

Personal Precautionary Measures:

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

Working solution: 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

Exposure Limits: Not established

Ventilation:

Concentrate: 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.

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

Respiratory Protection:

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

Working solution: None should be needed.

Eye Protection:

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

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

Skin Protection:

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

Working solution: 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: Eye bath, safety shower, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:

Concentrate: Solid

Working solution: Liquid

Color: Colorless

Odor: Odorless

Specific Gravity (water = 1):

Concentrate: > 1.00

Working solution: 1.03-1.05

Vapor Pressure at 20°C (68°F):

Concentrate: Negligible

Working solution: 24 mbar (18 mm Hg)

Vapor Density (Air = 1):

Concentrate: Not applicable
Working solution: 0.6
Volatile Fraction by Weight:
Concentrate: Negligible
Working solution: 90-95%
Boiling Point:
Concentrate: Not applicable
Working solution: >100°C (>212°F)
Melting Point:
Concentrate: Not available
Working solution: Not applicable
Solubility in Water:
Concentrate: Appreciable
Working solution: Complete
pH:
Concentrate: Not applicable
Working solution: 9.6-9.8
Flash Point:
Concentrate: Not applicable, noncombustible solid
Working solution: 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 Decomposition Products:

Concentrate: Nitrogen oxides (NO_x), carbon dioxide, carbon monoxide

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation:

Concentrate: Airborne dust irritating.

Working solution: Expected to be a low hazard for recommended handling.

Eyes:

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

Working solution: No specific hazard known. May cause transient irritation.

Skin:

Concentrate: Causes irritation.

Working solution: Low hazard for recommended handling.

Ingestion:

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

Working solution: Expected to be a low ingestion hazard.

12. ECOLOGICAL INFORMATION

Introduction: This environmental effects summary is written to assist in addressing emergencies created by an accidental spill which might occur during the shipment of this material, and, in general, it is not meant to address discharges to sanitary sewers or publically owned treatment works.

Summary: Data for the major components of this material have been used to estimate the environmental impact of this material. However, this material, itself, has not been tested for environmental effects.

It is expected to have the following properties: a low biochemical oxygen demand and little potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination and/or early growth of some plants, a low potential to biodegrade (high persistence) with unacclimated microorganisms from activated sludge, a low potential to bioconcentrate. After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Flush to sewer with large amounts of water.

14. TRANSPORT INFORMATION

- For transportation information regarding this product call the Kodak Worldwide Transportation Hazmat Hot Line: (716) 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:

Concentrate:

CONTAINS: Sodium sesquicarbonate (000533-96-0)
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.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Working solution:

LOW HAZARD FOR RECOMMENDED HANDLING

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

FIRST AID: Treat symptomatically. Get medical attention if symptoms occur.

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.

Conc.:R-1, S-2, F-0, C-0

WS:R-1, S-1, F-0, C-0



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