

MATERIAL SAFETY DATA SHEET

200000931/F/USA - F-0152.000D

Approval Date: 10/05/1995

Print Date: 10/07/1995

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KODAK Sodium Thiosulfate Pentahydrate

Catalog Number(s): 140 1124 - 100 pound(s) (U.S.) Drum

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

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

For other information, call (800) 242-2424. To request an MSDS, call (800) 242-2424, extension 25.

Synonym(s): KAN 037161; PCD 10400; PCD 10401; F-0152.000

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

100 Sodium thiosulfate pentahydrate (010102-17-7)

3. HAZARDS IDENTIFICATION

WARNING!
REDUCING AGENT

HMIS Hazard Ratings:

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

NFPA Hazard Ratings:

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

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. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

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



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

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

Ingestion: 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: 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: Reducing agent. Greatly increases the burning rate of combustible materials.

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.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Use with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials, highly oxygenated or halogenated solvents, organic compounds containing reducible functional groups, or aqueous ammonia. Keep away from combustible material. Remove and wash contaminated clothing promptly.

Storage: Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section). Do not store or ship together with combustible material. Store in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Not established

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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.

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

Skin 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: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid

Color: White

Odor: Odorless

Specific Gravity (water = 1): 1.67

Vapor Pressure: Negligible

Vapor Density (Air = 1): Not applicable

Evaporation Rate (n-butyl acetate = 1): Negligible

Volatile Fraction by Weight: Negligible

Melting Point: 48 C (118 F)

Solubility in Water: Appreciable

pH: Not applicable

Flash Point: Not applicable, noncombustible solid

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong oxidizing agents, acids, combustible material, halogenated materials, aqueous ammonia

Hazardous Decomposition Products: Sulfur dioxide

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

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



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

Skin: Low hazard for recommended handling.

Ingestion: Expected to be a low ingestion hazard.

Acute Toxicity Data:

Oral LD-50 (rat): > 5000 mg/kg

Skin irritation: slight

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 this material have been used to estimate its environmental impact.

It is expected to have the following properties: a moderate biochemical oxygen demand and may 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 moderate potential to affect the growth of some plant seedlings, a low potential to bioconcentrate. When diluted with water, this material released directly or indirectly into the environment is not expected to have a significant impact.

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.

14. TRANSPORT INFORMATION

For transportation information regarding this product, call the Kodak Information Center: (800) 242-2424 between 8 a.m. and 8 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

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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!
REDUCING AGENT

Keep container tightly closed.
Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly.

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.

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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