

Material Safety Data Sheet



Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 1/7

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

Product name: KODAK SEPIA TONER PACKET, Part B (Toning Bath)

Product code: 20314065 - Part B (Toning Bath)

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

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

For further information about this product, call (800) 242-2424.

Synonyms: PCD 11020

Product Use: photographic processing chemical, For industrial use only.

2. Hazards identification

CONTAINS: Disodium sulfide, nonahydrate (1313-84-4)

DANGER!

CONTACT WITH WATER LIBERATES TOXIC GAS

CONTACT WITH ACID LIBERATES FLAMMABLE AND POISONOUS GAS

POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

POISON

STENCH

MAY BE FATAL OR HARMFUL IF INHALED OR SWALLOWED

CAUSES SEVERE SKIN AND EYE BURNS

DUST, MIST OR VAPOUR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT

HARMFUL IF ABSORBED THROUGH SKIN

MAY CAUSE DELAYED LUNG DAMAGE

HMIS III Hazard Ratings: Health - 3, Flammability - 1, Reactivity (Stability) - 0

NFPA Hazard Ratings: Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) 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. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight %	Components - (CAS-No.)
100	Disodium sulfide, nonahydrate (1313-84-4)

4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention.

Material Safety Data Sheet

Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 2/7



Eyes: Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, DO NOT induce vomiting. Rinse mouth. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical.

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

Hazardous Combustion Products: Sulphur oxides, (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: Dust may form explosive mixture in air.

6. Accidental release measures

Avoid dust formation. Shovel into suitable container for disposal. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Dust may form explosive mixture in air. Minimize dust generation and accumulation. Use only with adequate ventilation. Keep away from sources of ignition. Refer to NFPA 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids." Keep from contact with oxidizing materials.

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

8. Exposure controls/personal protection

Occupational exposure controls: Not established

Material Safety Data Sheet

Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 3/7



Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: N95 Particulate Filter. A full-face positive-pressure air-supplied respirator must be worn if hazardous decomposition products are likely to be released or have been released. See Stability and Reactivity Section. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

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

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

9. Physical and chemical properties

Physical form: solid (crystalline)

Colour: light yellow

Odour: pungent

Specific gravity: 1.43

Vapour pressure (at 20.0 °C (68.0 °F)) : negligible

Vapour density: not applicable

Volatile fraction by weight: no data available

Boiling point/boiling range: 174 °C (345.2 °F)

Melting point/range: 50 °C (122.0 °F)

Water solubility: appreciable

pH: not applicable

Flash point: 93 °C (199.4 °F) (micro Cleveland open cup)

Autoignition temperature: 340.0 °C (644.0 °F)

10. Stability and reactivity

Stability: Stable under normal conditions.

No exotherm to 500 °C by DTA

Incompatibility: Strong acids, Strong oxidizing agents. Contact with acid liberates hydrogen sulphide.

Hazardous decomposition products: Sulphur oxides, hydrogen sulphide

Material Safety Data Sheet



Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 4/7

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

Inhalation: May be fatal or harmful if inhaled. Airborne dust/mist/vapor extremely irritating. If hydrogen sulphide gas is liberated due to contact with acid, it may cause headache, nausea, dizziness, confusion, weakness, unconsciousness, convulsions, and death.

Eyes: Causes severe eye burns. Airborne dust/mist/vapor extremely irritating.

Skin: Harmful if absorbed through skin. Causes severe skin burns.

Ingestion: May be fatal or harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed. If free gastric acidity is high, hydrogen sulfide is liberated in the stomach and may cause systemic toxic effects such as vomiting, respiratory depression, tremors, convulsions and death.

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): < 1 mg/l

Toxicity to daphnia (EC50): < 1 mg/l

Persistence and degradability: Readily biodegradable.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

IATA:	UN-Number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8
	Packaging group:	II
	Marine Pollutant status:	Marine pollutant
	Marine Pollutant(s):	Sodium sulphide

Material Safety Data Sheet



Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 5/7

IMDG: UN-Number: UN1849
Proper shipping name: SODIUM SULPHIDE, HYDRATED
Class: 8
Packaging group: II
Marine Pollutant status: Marine pollutant
Marine Pollutant(s): Sodium sulphide

US DOT: UN-Number: UN1849
Proper shipping name: SODIUM SULFIDE, HYDRATED
Class: 8
Packaging group: II
Marine Pollutant status: Marine pollutant
Marine Pollutant(s): Sodium sulphide

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
International Agency for Research on Cancer (IARC):	No component of this product present

Material Safety Data Sheet

Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 6/7



	at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.
U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	No components of this product are subject to the SARA Section 313 (40 CFR 372.65) reporting requirements.
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	No components found on the California Director's List of Hazardous Substances.
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Sodium sulphide
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	No components found on the Minnesota Employee Right-to-Know List of Hazardous Substances.

Material Safety Data Sheet



Revision Date: 11/26/2009
Z17000000623/Version: 2.2
Print Date: 09/17/2012
Page: 7/7

U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	Sodium sulphide
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapters 301-323):	Sodium sulphide, Water
U.S. - Rhode Island - Title 28 Labor and Labor Relations (Chapters 28-21 Hazardous Substance Right-to-Know Act):	No components regulated under the Rhode Island Hazardous Substance Right-to-Know Act.

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

KODAK SEPIA TONER PACKET, Part B (Toning Bath)

CONTAINS: Disodium sulfide, nonahydrate (1313-84-4).

DANGER! CONTACT WITH WATER LIBERATES TOXIC GAS. CONTACT WITH ACID LIBERATES FLAMMABLE AND POISONOUS GAS. POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES. POISON. STENCH. MAY BE FATAL OR HARMFUL IF INHALED OR SWALLOWED. CAUSES SEVERE SKIN AND EYE BURNS. DUST, MIST OR VAPOUR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT. HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE DELAYED LUNG DAMAGE.

Minimize dust generation and accumulation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. **FIRST AID:** If inhaled, remove to fresh air. Get medical attention. Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. If swallowed, DO NOT induce vomiting. Rinse mouth. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person. 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. Since emptied containers retain product residue, follow label warnings even after container is emptied. **IN CASE OF FIRE:** Water spray, Carbon dioxide (CO₂), Dry chemical. **IN CASE OF SPILL:** Avoid dust formation. Shovel into suitable container for disposal. Clean surface thoroughly to remove residual contamination. Additional Components Include: Water (7732-18-5).

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-3, S-3, F-1, C-0