

# MATERIAL SAFETY DATA SHEET

Revision Date: 05/31/2005  
Z17000000624/Version: 1.0  
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## 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** KODAK Sepia Toner, Part A (Bleach Bath)

**Product code:** 1691757 - Part A (Bleach Bath)

**Manufacturer:** KODAK LIMITED, Acornfield Road, Liverpool, L33 7UF; 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 401

## 2. Hazards identification

**CONTAINS:** Potassium bromide (7758-02-3), Potassium ferricyanide (13746-66-2)

### WARNING!

**HARMFUL IF SWALLOWED**

**CONTACT WITH ACID LIBERATES FLAMMABLE MATERIAL**

**CONTACT WITH ACID LIBERATES TOXIC GAS**

**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**

**CAN DECOMPOSE AT ELEVATED TEMPERATURES**

### HMIS II Hazard Ratings:

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

### NFPA Hazard Ratings:

Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS II 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 II 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.)
50 - 55	Potassium bromide (7758-02-3)
45 - 50	Potassium ferricyanide (13746-66-2)

## 4. First aid measures

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

**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:** Only induce vomiting at the instruction of medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## 5. Fire-fighting measures

**Extinguishing Media:** water spray, carbon dioxide (CO<sub>2</sub>), 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:** Carbon oxides, nitrogen oxides (NO<sub>x</sub>) (see also Hazardous Decomposition Products section).

**Unusual Fire and Explosion Hazards:** Fire or high temperatures may cause decomposition. Powdered material may form explosive dust-air mixtures.

## 6. Accidental release measures

**Methods for cleaning up:** Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Avoid breathing dust at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from heat and sources of ignition. Dust may form explosive mixture in air. Minimize dust generation and accumulation. Ensure adequate ventilation. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials.

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

## 8. Exposure controls / personal protection

### Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Hydrogen cyanide	ACGIH	Ceiling Limit Value: <i>Expressed as CN</i>	4.7 ppm
	ACGIH	Skin designation:	

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	<i>Expressed as CN</i>	
	<i>Remarks: Can be absorbed through the skin.</i>	
OSHA Z1	Permissible exposure limit	10 ppm 11 mg/m3
OSHA Z1	Skin designation:	
	<i>Remarks: Can be absorbed through the skin.</i>	

**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**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. 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).

**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 as appropriate to condition of use.

## 9. Physical and Chemical Properties

**Physical form:** solid (crystalline)

**Colour:** orange

**Odour:** odourless

**Specific gravity:** No data available

**Vapour pressure:** negligible

**Vapor density (air = 1):** not applicable

**Volatile fraction by weight:** negligible

**Melting point/range:** No data available

**Water solubility:** appreciable

**pH:** not applicable

**Flash point:** not applicable, combustible solid

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## 10. Stability and reactivity

**Stability:** Not fully evaluated. Materials containing similar structural groups can decompose if heated.

**Incompatibility:** Strong acids, strong oxidizing agents. Contact with acid liberates flammable material. Contact with acid liberates toxic gas. Contact with acids liberates hydrogen cyanide.

**Hazardous decomposition products:** nitrogen oxides (NO<sub>x</sub>), hydrogen cyanide (hydrocyanic acid), hydrogen bromide.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

## 11. Toxicological information

### Effects of Exposure

**Inhalation:** Expected to be a low hazard for recommended handling. If hydrogen cyanide gas is liberated due to contact with a strong oxidizer or acid, it may cause dizziness, headache, rapid respiration, rapid pulse, unconsciousness, convulsions and death.

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

**Skin:** Expected to be a low hazard for recommended handling.

**Ingestion:** Harmful if swallowed. Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.

### Acute Toxicity Data:

- Oral LD50 (rat): 500 - 5,000 mg/kg
- Skin irritation: slight

## 12. Ecological information

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

Potential Toxicity:

Fish LC50:	> 100 mg/l
Daphnid EC50:	1 - 10 mg/l
Algal IC50:	No data available

Waste treatment organisms EC50: > 100 mg/l

Organics Readily Degradable: Not applicable

Potential Bioaccumulation: log Pow < 1

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COD (approximate): 2 g/l  
BOD (approximate): 0.05 g/l

### 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

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): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**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: Potassium bromide (7758-02-3), Potassium ferricyanide (13746-66-2)**

**WARNING!**  
**HARMFUL IF SWALLOWED**  
**CONTACT WITH ACID LIBERATES FLAMMABLE MATERIAL**  
**CONTACT WITH ACID LIBERATES TOXIC GAS**  
**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**  
**CAN DECOMPOSE AT ELEVATED TEMPERATURES**

Avoid breathing dust.  
Avoid contact with eyes, skin, and clothing.  
Keep container tightly closed.  
Minimize dust generation and accumulation.  
Ensure adequate ventilation.

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Wash thoroughly after handling.

**FIRST AID:** If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Keep out of reach of children.

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

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.

**IN CASE OF FIRE:** Use water spray, carbon dioxide (CO<sub>2</sub>), dry chemical.

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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. 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.

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R-1, S-1, F-1, C-1T

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

**Product name:** KODAK Sepia Toner, Part B (Toning Bath)

**Product code:** 1691757 - Part B (Toning Bath)

**Manufacturer:** KODAK LIMITED, Acornfield Road, Liverpool, L33 7UF; 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 11020

## 2. Hazards identification

**CONTAINS:** Sodium sulphide (1313-82-2)

**DANGER!**

**CAUSES SKIN AND EYE BURNS**

**HARMFUL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED**

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

**CONTACT WITH ACID LIBERATES FLAMMABLE AND POISONOUS GAS**

**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**

**HMIS II Hazard Ratings:**

Health - 3, Flammability - 1, Reactivity (Stability) - 0

**NFPA Hazard Ratings:**

Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS II 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 II 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.)
60 - 65	Sodium sulphide (1313-82-2)
35 - 40	Water (7732-18-5)

## 4. First aid measures

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention.

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

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before re-use. 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.

## 5. Fire-fighting measures

**Extinguishing Media:** water spray, carbon dioxide (CO<sub>2</sub>), 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 section).

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

## 6. Accidental release measures

**Methods for cleaning up:** Shovel into suitable container for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Dust may form explosive mixture in air. Minimize dust generation and accumulation. Ensure adequate ventilation. Keep away from sources of ignition - No smoking. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." 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

Chemical Name	Regulatory List	Value Type	Value
Hydrogen sulphide	ACGIH	time weighted average	10 ppm
	ACGIH	Short term exposure limit	15 ppm
	OSHA Z2	Ceiling Limit Value:	20 ppm
	OSHA Z2	Maximum concentration:	50 ppm

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**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

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

**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

## 9. Physical and Chemical Properties

**Physical form:** solid (flakes)

**Colour:** light yellow

**Odour:** pungent

**Specific gravity:** 1.69

**Vapour pressure:** negligible

**Vapor density (air = 1):** not applicable

**Volatile fraction by weight:** negligible

**Boiling point/range:** 145.0 °C (293.0 °F)

**Melting point/range:** 91.0 °C (195.8 °F)

**Water solubility:** appreciable

**pH:** not applicable

**Flash point:** not applicable, combustible solid

## 10. Stability and reactivity

**Stability:** Stable.

**Incompatibility:** Strong acids, strong acids. Contact with acid liberates hydrogen sulphide.

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**Hazardous decomposition products:** hydrogen sulphide.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

## 11. Toxicological information

### Effects of Exposure

**Inhalation:** Harmful if inhaled. Airborne dust/mist/vapor 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 eye burns. Airborne dust/mist/vapor irritating.

**Skin:** Causes skin burns.

**Ingestion:** 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.

### Acute Toxicity Data:

- Oral LD50 (rat): 100 - 200 mg/kg
- Dermal LD50: < 340 mg/kg
- Skin irritation: strong

## 12. Ecological information

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

Potential Toxicity:

Fish LC50: 1 - 10 mg/l

Daphnid EC50: 1 - 10 mg/l

Algal IC50: 10 - 100 mg/l

Waste treatment organisms EC50: No data available

Organics Readily Degradable: Not applicable

Potential Bioaccumulation:  $\log P_{ow} < 1$

COD (approximate): 1099 g/l

BOD (approximate): No data available

## 13. Disposal considerations

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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.

<b>IATA:</b>	UN Number:	UN1849
	Proper shipping name:	Sodium sulfide, hydrated
	Class:	8
	Packaging group:	II
<b>IMDG:</b>	UN Number:	UN1849
	Proper shipping name:	SODIUM SULPHIDE, HYDRATED
	Class:	8
	Packaging group:	II
<b>US DOT:</b>	UN Number:	UN1849
	Proper shipping name:	Sodium sulfide, hydrated
	Class:	8
	Packaging group:	II

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): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**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 sulphide (1313-82-2)**

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## **DANGER!**

**CAUSES SKIN AND EYE BURNS**  
**HARMFUL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED**  
**DUST, MIST OR VAPOUR IRRITATING TO THE EYES AND RESPIRATORY TRACT**  
**CONTACT WITH ACID LIBERATES FLAMMABLE AND POISONOUS GAS**  
**POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES**

Avoid breathing dust.  
Do not get in eyes, on skin, or on clothing.  
Minimize dust generation and accumulation.  
Ensure 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. If inhaled, move to fresh air. Treat symptomatically. Get medical attention. 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 immediately.

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.

**IN CASE OF FIRE:** Use water spray, carbon dioxide (CO<sub>2</sub>), dry chemical.

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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. 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.

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

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

**Product name:** KODAK Sepia Toner, Working solution (Bleach Bath)

**Product code:** 1691757 - Working solution (Bleach Bath)

**Manufacturer:** KODAK LIMITED, Acornfield Road, Liverpool, L33 7UF; 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:** None.

## 2. Hazards identification

### LOW HAZARD FOR RECOMMENDED HANDLING

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

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

NOTE: HMIS II 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 II 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.)
98 - 100	Water (7732-18-5)
0.1 - 1	Potassium bromide (7758-02-3)
0.1 - 1	Potassium ferricyanide (13746-66-2)

## 4. First aid measures

**Inhalation:** If inhaled, move to fresh air. Get medical attention if symptoms occur.

**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:** Get medical attention if symptoms occur.

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## 5. Fire-fighting measures

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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 prolonged or repeated breathing of mist or vapour. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** No special technical protective measures required.

**Storage:** Keep container tightly 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.

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

**Skin and body protection:** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

## 9. Physical and Chemical Properties

**Physical form:** liquid

**Colour:** colourless

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**Odour:** odourless

**Specific gravity:** 1.00 - 1.02

**Vapour pressure (at 20.0 °C (68.0 °F)) :** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

**Volatile fraction by weight:** < 98 %

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

**Water solubility:** complete

**pH:** 8.0

**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 decomposition products:** None under normal conditions of use.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

## 11. Toxicological information

### Effects of Exposure

**Inhalation:** Low hazard for recommended handling.

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

**Skin:** Low hazard for recommended handling.

**Ingestion:** Expected to be a low hazard for recommended handling.

## 12. Ecological information

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

Potential Toxicity:

Fish LC50: > 100 mg/l

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Daphnid EC50:	> 100 mg/l
Waste treatment organisms EC50:	> 100 mg/l
Organics Readily Degradable:	Not applicable
Potential Bioaccumulation:	log Pow < 1
COD (approximate):	2 g/l
BOD (approximate):	0.05 g/l

## 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

For transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

## 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): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**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:**

**LOW HAZARD FOR RECOMMENDED HANDLING**

Avoid prolonged or repeated breathing of mist or vapour.  
Avoid contact with eyes, skin, and clothing.  
Ensure adequate ventilation.  
Wash thoroughly after handling.

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

Keep out of reach of children.

## MATERIAL SAFETY DATA SHEET

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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 SPILL:** Absorb spill with inert material, then place in a chemical waste container.

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

**Product name:** KODAK Sepia Toner, Working solution (Toning Bath)

**Product code:** 1691757 - Working solution (Toning Bath)

**Manufacturer:** KODAK LIMITED, Acornfield Road, Liverpool, L33 7UF; 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:** None.

## 2. Hazards identification

**EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING**

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

**NFPA Hazard Ratings:** Health - 0, Flammability - 0, Instability - 0

NOTE: HMIS III and NFPA 704 (2001) 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 III 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.)
> 99	Water (7732-18-5)
< 1	Sodium sulphide (1313-82-2)

## 4. First aid measures

**Inhalation:** If inhaled, move to fresh air. Get medical attention if symptoms occur.

**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:** Get medical attention if symptoms occur.

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## 5. Fire-fighting measures

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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:** Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Avoid prolonged or repeated breathing of mist or vapour. Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** No special technical protective measures required.

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

## 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.

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

**Skin and body protection:** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

## 9. Physical and Chemical Properties

**Physical form:** liquid

**Colour:** colourless

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**Odour:** odourless

**Specific gravity:** 1.00

**Vapour pressure (at 20.0 °C (68.0 °F)) :** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

**Volatile fraction by weight:** > 99 %

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

**Water solubility:** complete

**pH:** > 12

**Flash point:** none, noncombustible liquid

## 10. Stability and reactivity

**Stability:** Stable.

**Incompatibility:** Acids.

**Hazardous decomposition products:** None under normal conditions of use.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

## 11. Toxicological information

### Effects of Exposure

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

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

**Skin:** Expected to be a low hazard for recommended handling.

**Ingestion:** Expected to be a low ingestion hazard.

## 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

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Algal IC50:	> 100 mg/l
Waste treatment organisms EC50:	No data available
Organics Readily Degradable:	Not applicable
Potential Bioaccumulation:	log Pow < 1
COD (approximate):	3 g/l
BOD (approximate):	No data available

## 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

For transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

## 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): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**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:**

**EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING**

Avoid prolonged or repeated breathing of mist or vapour.  
Ensure adequate ventilation.  
Avoid contact with eyes, skin, and clothing.  
Wash thoroughly after handling.

**FIRST AID:** If inhaled, move to fresh air. Get medical attention if symptoms occur. Wash off with soap and water.

Keep out of reach of children.

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