

Material Safety Data Sheet

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

Product name: KODAK Combo Color and Black Ink Cartridge

Product code: 1963149

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Diethylene glycol (111-46-6), Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is 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.)
5 - 10	Diethylene glycol (111-46-6)
1 - 5	Black colorant (proprietary)
1 - 5	Polyethylene glycol (25322-68-3)
1 - 5	Glycerol (56-81-5)
0.1 - 1	Alcohols, C12-14-secondary, ethoxylated (84133-50-6)
0.0015 - < 0.3	Isothiazolin derivative (proprietary)

4. First aid measures

Inhalation: If symptomatic, 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.

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

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

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 vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: 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
Glycerol	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</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.

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Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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) and a face shield.

Hand protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Colour: black

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 85 %

Boiling point/boilingrange: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.3 °C (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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General advice:

Contains: Diethylene glycol. Can cause kidney damage and CNS effects following ingestion. Repeated oral exposure to high doses can cause liver damage.

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: May be harmful if swallowed.

Data for Diethylene glycol (CAS 111-46-6):

Acute Toxicity Data:

- Oral LD50 (rat): > 3,200 mg/kg
- Dermal LD50: > 10,000 mg/kg
- Skin irritation: slight to moderate
- Skin irritation: slight
- Eye irritation: slight

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

12. Ecological information

This material has not been tested for environmental effects.

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

15. Regulatory information

Notification status

Regulatory List

Notification status

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EINECS	n (Negative listing)
TSCA	n (Negative listing)
AICS	n (Negative listing)
DSL	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
INV (CN)	n (Negative listing)
TSCA 12B	

A N (Negative listing) 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 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:	none
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Diethylene glycol, Black colorant, Polyethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol

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US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):

Water, Diethylene glycol, Black colorant, Polyethylene glycol, Glycerol

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:

CONTAINS: Diethylene glycol (111-46-6), Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. 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.

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

IN CASE OF FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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

Product name: KODAK Combo Color and Black Ink Cartridge, Cyan Ink

Product code: 1963149 - Cyan Ink

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Ethylene glycol (107-21-1), Polymer (proprietary), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is 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.)
0 - 10	Ethylene glycol (107-21-1)
0 - 10	Glycerol (56-81-5)
0 - 1	Colorant (proprietary)
0.1 - < 0.2	Isothiazolin derivative (proprietary)
0 - 1	Triethanolamine (102-71-6)
0 - 1	Polymer (proprietary)

4. First aid measures

Inhalation: If symptomatic, 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.

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Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

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 vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: 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
Ethylene glycol Glycerol	ACGIH	Ceiling Limit Value	100 mg/m3
	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</i>	

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Triethanolamine ACGIH time weighted average 5 mg/m3

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: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Colour: various

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 85 %

Boiling point/boilingrange: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.3 °C (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

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11. Toxicological information

Effects of Exposure

General advice:

Contains: Ethylene glycol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects based on human data. May cause adverse reproductive effects following ingestion based on animal data.

Contains: Polymer. May cause liver damage based on animal data.

Contains: Triethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver.

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: May be harmful if swallowed.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

Data for Triethanolamine (CAS 102-71-6):

Acute Toxicity Data:

- Oral LD50: 2,200 mg/kg
- Dermal LD50 (rat): >16 mL/kg
- Skin irritation: Mild skin irritation
- Skin Sensitization (guinea pig): negative
- Eye irritation: mild

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	10 - 100 mg/l
Toxicity to daphnia (EC50):	> 100 mg/l
Toxicity to algae (IC50):	> 100 mg/l
Toxicity to other organisms (EC50):	> 100 mg/l

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Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): 259 g/l

Biochemical Oxygen Demand (BOD): 107 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 more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
EINECS	n (Negative listing)
EINECS	n (Negative listing)
TSCA	n (Negative listing)
ENCS (JP)	n (Negative listing)
AICS	n (Negative listing)
KECI (KR)	n (Negative listing)
DSL	n (Negative listing)
INV (CN)	n (Negative listing)
AICS	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
TSCA	n (Negative listing)
PICCS (PH)	n (Negative listing)
DSL	n (Negative listing)
INV (CN)	n (Negative listing)
TSCA 12B	

A N (Negative listing) 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.

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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 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:	none
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	Ethylene glycol
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Ethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):	Water, Ethylene glycol, Glycerol, Acrylate polymer, Polymer

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:

CONTAINS: Ethylene glycol (107-21-1), Polymer (proprietary), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

Avoid prolonged or repeated breathing of mist or vapour.

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Avoid contact with eyes, skin, and clothing.
Use only with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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-1, C-0

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

Product name: KODAK Combo Color and Black Ink Cartridge, Magenta Ink

Product code: 1963149 - Magenta Ink

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Ethylene glycol (107-21-1), Polymer (proprietary), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is 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.)
0 - 10	Ethylene glycol (107-21-1)
0 - 10	Glycerol (56-81-5)
0 - 1	Colorant (proprietary)
0.1 - < 0.2	Isothiazolin derivative (proprietary)
0 - 1	Triethanolamine (102-71-6)
0 - 1	Polymer (proprietary)

4. First aid measures

Inhalation: If symptomatic, 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.

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Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

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 vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: 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
Ethylene glycol Glycerol	ACGIH	Ceiling Limit Value	100 mg/m3
	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</i>	

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Triethanolamine ACGIH time weighted average 5 mg/m3

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: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Colour: various

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 85 %

Boiling point/boilingrange: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.3 °C (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

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11. Toxicological information

Effects of Exposure

General advice:

Contains: Ethylene glycol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects based on human data. May cause adverse reproductive effects following ingestion based on animal data.

Contains: Polymer. May cause liver damage based on animal data.

Contains: Triethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver.

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: May be harmful if swallowed.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

Data for Triethanolamine (CAS 102-71-6):

Acute Toxicity Data:

- Oral LD50: 2,200 mg/kg
- Dermal LD50 (rat): >16 mL/kg
- Skin irritation: Mild skin irritation
- Skin Sensitization (guinea pig): negative
- Eye irritation: mild

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	10 - 100 mg/l
Toxicity to daphnia (EC50):	> 100 mg/l
Toxicity to algae (IC50):	> 100 mg/l
Toxicity to other organisms (EC50):	> 100 mg/l

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Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): 259 g/l

Biochemical Oxygen Demand (BOD): 107 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 more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
EINECS	n (Negative listing)
TSCA	n (Negative listing)
AICS	n (Negative listing)
DSL	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
INV (CN)	n (Negative listing)
TSCA 12B	

A N (Negative listing) 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 at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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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:	none
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	Ethylene glycol
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Ethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):	Water, Ethylene glycol, Glycerol, Acrylate polymer, Polymer

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:

CONTAINS: Ethylene glycol (107-21-1), Polymer (proprietary), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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Notes to physician: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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-1, C-0

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

Product name: KODAK Combo Color and Black Ink Cartridge, Photo Black Ink

Product code: 1963149 - Photo Black Ink

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Ethylene glycol (107-21-1), Isothiazolin derivative (proprietary), Carbon black (1333-86-4)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is 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.)
0 - 10	Ethylene glycol (107-21-1)
0 - 10	Glycerol (56-81-5)
0 - 0.5	Carbon black (1333-86-4)
0 - < 1	Triethanolamine (102-71-6)
0 - < 0.3	Isothiazolin derivative (proprietary)

4. First aid measures

Inhalation: If inhaled, remove 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.

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Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

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 vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: 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
Ethylene glycol Glycerol	ACGIH	Ceiling Limit Value	100 mg/m3
	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</i>	

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Carbon black	ACGIH	time weighted average	3.5 mg/m3
	OSHA Z1	Permissible exposure limit	3.5 mg/m3
Triethanolamine	ACGIH	time weighted average	5 mg/m3

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: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Colour: black

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 85 %

Boiling point/boilingrange: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.3 °C (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

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Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Carbon black. In 1996 the International Agency for Research on Cancer (IARC) reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen), based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black. The effects were observed only in animals exposed to high concentrations of carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. Epidemiology studies of workers in the carbon black producing industries of North America and Western Europe do not demonstrate an association between carbon black and cancer, even in high exposure occupational settings. In addition, in its reevaluation of carbon black, IARC concluded that "there is inadequate evidence in humans for the carcinogenicity of carbon black." Chronic overexposure to many dusts, including carbon black dust, may result in respiratory tract irritation and slight changes in lung function. Collectively, the available animal data and human epidemiology studies suggest that carbon black, as contained in this product, does not present a cancer risk to the end user if the handling and personal protective measures contained within this Material Safety Data Sheet are understood and followed.

Contains: Ethylene glycol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects based on human data. May cause adverse reproductive effects following ingestion based on animal data.

Contains: Triethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver.

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: May be harmful if swallowed.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

Data for Carbon black (CAS 1333-86-4):

Acute Toxicity Data:

- Oral LD50 (rat): > 5,000 mg/kg
- Eye irritation (Mild eye irritation): mild

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Mutagenicity/Genotoxicity Data:

- Salmonella typhimurium assay (Ames test) (TA98, TA100, TA1535, TA1537, TA1538): negative (in presence and absence of activation)
- Mouse lymphoma assay: negative (in presence of activation)

Data for Triethanolamine (CAS 102-71-6):

Acute Toxicity Data:

- Oral LD50: 2,200 mg/kg
- Dermal LD50 (rat): >16 mL/kg
- Skin irritation: Mild skin irritation
- Skin Sensitization (guinea pig): negative
- Eye irritation: mild

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	10 - 100 mg/l
Toxicity to daphnia (EC50):	> 100 mg/l
Toxicity to algae (IC50):	> 100 mg/l
Toxicity to other organisms (EC50):	> 100 mg/l (sludge)

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 259 g/l

Biochemical Oxygen Demand (BOD): ca. 107 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 more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

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Notification status

Regulatory List	Notification status
EINECS	n (Negative listing)
TSCA	n (Negative listing)
AICS	n (Negative listing)
DSL	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
INV (CN)	n (Negative listing)
TSCA 12B	

A N (Negative listing) 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):	Carbon black: 2B (Possible carcinogen.)
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:	Carbon black (Carcinogenic.) (airborne, unbound particles of respirable size)
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	Ethylene glycol
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Ethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):	Water, Ethylene glycol, Glycerol

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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:

CONTAINS: Ethylene glycol (107-21-1), Isothiazolin derivative (proprietary), Carbon black (1333-86-4)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

FIRST AID: If inhaled, remove to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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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The Kodak logo is displayed in a bold, red, sans-serif font.

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

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

Product name: KODAK Combo Color and Black Ink Cartridge, Protective Ink

Product code: 1963149 - Protective Ink

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Ethylene glycol (107-21-1), Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is 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.)
0 - 10	Ethylene glycol (107-21-1)
0 - 10	Glycerol (56-81-5)
0 - 1	Alcohols, C12-14-secondary, ethoxylated (84133-50-6)
0 - < 1	Diethylene glycol (111-46-6)
0 - < 0.3	Isothiazolin derivative (proprietary)

4. First aid measures

Inhalation: If symptomatic, 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.

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Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

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 vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: 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
Ethylene glycol Glycerol	ACGIH	Ceiling Limit Value	100 mg/m3
	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</i>	

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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: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Colour: no data available

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 85 %

Boiling point/boilingrange: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.3 °C (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

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11. Toxicological information

Effects of Exposure

General advice:

Contains: Ethylene glycol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects based on human data. May cause adverse reproductive effects following ingestion based on animal data.

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: May be harmful if swallowed.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	10 - 100 mg/l
Toxicity to daphnia (EC50):	> 100 mg/l
Toxicity to algae (IC50):	> 100 mg/l
Toxicity to other organisms (EC50):	> 100 mg/l (sludge)

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 265 g/l

Biochemical Oxygen Demand (BOD): ca. 106 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

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Not regulated for all modes of transportation.

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

15. Regulatory information

Notification status

Regulatory List	Notification status
EINECS	n (Negative listing)
TSCA	n (Negative listing)
AICS	n (Negative listing)
DSL	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
INV (CN)	n (Negative listing)
TSCA 12B	

A N (Negative listing) 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 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:	none
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	Ethylene glycol
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous	SARA 302: No chemicals in this material are subject to the reporting

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Substance (40 CFR 355, Appendix A):	requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Ethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):	Water, Ethylene glycol, Glycerol, Alcohols, C12-14-secondary, ethoxylated

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:

CONTAINS: Ethylene glycol (107-21-1), Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Isothiazolin derivative (proprietary)

WARNING!
MAY BE HARMFUL IF SWALLOWED.

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

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. Wash off with soap and water. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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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.

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

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

Product name: KODAK Combo Color and Black Ink Cartridge, Yellow Ink

Product code: 1963149 - Yellow Ink

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.

Product Use: ink or inkjet chemical, For consumer and industrial use.

2. Hazards identification

CONTAINS: Ethylene glycol (107-21-1), Glycerol (56-81-5), Isothiazolin derivative (proprietary)

WARNING!

HARMFUL IF SWALLOWED

MAY CAUSE ALLERGIC SKIN REACTION

CAN CAUSE CNS EFFECTS

CAN CAUSE KIDNEY DAMAGE

HMIS III Hazard Ratings: Health - 2*, Flammability - 1, Reactivity (Stability) - 0

NFPA Hazard Ratings: Health - 2, 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.)
0 - 10	Ethylene glycol (107-21-1)
0 - 10	Glycerol (56-81-5)
0.1 - < 1	Alcohols, C12-14-secondary, ethoxylated (84133-50-6)
0 - < 1	Yellow pigment (proprietary)
0.1 - < 1	Triethanolamine (102-71-6)
0.0015 - < 0.3	Isothiazolin derivative (proprietary)

4. First aid measures

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Inhalation: If symptomatic, 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: 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 if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician:

Treatment: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Collect up and put in a suitable container. Damp cleaning methods should be used. Dry or wet electrostatic microfiber cleaning cloths may also be effective.

7. Handling and storage

Personal precautions: Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: The physical-chemical properties of this material have not been fully investigated. Use only with adequate ventilation. 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

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Chemical Name	Regulatory List	Value Type	Value
Ethylene glycol	ACGIH	Ceiling Limit Value	100 mg/m3
Glycerol	ACGIH	time weighted average	10 mg/m3
		<i>Form of exposure: Mist.</i>	
	OSHA Z1	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1	time weighted average	15 mg/m3
		<i>Form of exposure: Total dust.</i>	
	OSHA Z1A	time weighted average	5 mg/m3
		<i>Form of exposure: Respirable fraction.</i>	
	OSHA Z1A	time weighted average	10 mg/m3
		<i>Form of exposure: Total dust.</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: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. 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: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

Physical form: liquid

Particle size: May be less than 100 nm.

Colour: yellow

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 75 - 80 %

Boiling point/boilingrange: no data available

Water solubility: no data available

pH: no data available

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Flash point: > 93.3 (> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice: The toxicological properties of this material have not been fully investigated and its handling and use may be hazardous.

Contains: Ethylene glycol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects based on human data. May cause adverse reproductive effects following ingestion based on animal data.

Contains: Triethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver.

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

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

Skin: May cause allergic skin reaction.

Ingestion: Harmful if swallowed.

Data for Glycerol (CAS 56-81-5):

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg

Data for Triethanolamine (CAS 102-71-6):

Acute Toxicity Data:

- Oral LD50: 2,200 mg/kg
- Dermal LD50 (rat): >16 mL/kg
- Skin irritation: Mild skin irritation
- Skin Sensitization (guinea pig): negative
- Eye irritation: mild

12. Ecological information

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Based on analysis of its components, this material is not expected to be harmful to aquatic life.

Potential Toxicity:

Toxicity to fish:	10 - 100 mg/l
Toxicity to daphnia:	> 100 mg/l
Toxicity to algae:	> 100 mg/l
Toxicity to other organisms:	> 100 mg/l

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): 259 g/l

Biochemical Oxygen Demand (BOD): 107 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 more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

Regulatory List	Notification status
EINECS	n (Negative listing)
TSCA	n (Negative listing)
AICS	n (Negative listing)
DSL	n (Negative listing)
ENCS (JP)	n (Negative listing)
KECI (KR)	n (Negative listing)
PICCS (PH)	n (Negative listing)
INV (CN)	n (Negative listing)

A N (Negative listing) 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

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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 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.
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:	Ethylene glycol
US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):	Water, Ethylene glycol, Glycerol
US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):	Glycerol
US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):	Water, Ethylene glycol, Glycerol, Alcohols, C12-14-secondary, ethoxylated

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:

CONTAINS: Ethylene glycol (107-21-1), Glycerol (56-81-5), Isothiazolin derivative (proprietary)

WARNING!
HARMFUL IF SWALLOWED
MAY CAUSE ALLERGIC SKIN REACTION
CAN CAUSE CNS EFFECTS
CAN CAUSE KIDNEY DAMAGE

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Avoid breathing mist or vapour at concentrations greater than the exposure limits.
Avoid contact with eyes, skin, and clothing.
Use only with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur. 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 if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician: Due to rapid absorption of material, evacuation of the stomach is effective only if performed immediately after ingestion. Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Collect up and put in a suitable container. Damp cleaning methods should be used. Dry or wet electrostatic microfiber cleaning cloths may also be effective.

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R-1, S-2, F-1, C-0