

# Safety Data Sheet

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

**Product name:** KODAK Color Ink Cartridge / 10C, Cyan Ink

**Product code:** 8946501 - Cyan Ink

**Synonyms:** None.

**Relevant identified uses of the substance or mixture and uses advised against:**

**Identified uses:** ink or inkjet chemical

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

IN EMERGENCY, telephone: 1-800-424-9300 or +1 703-527-3887.

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

## 2. Hazards identification

**Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:**

Hazard class	Hazard category	Route of exposure
Eye irritation	Category 2A	--
Reproductive toxicity	Category 1B	--
Specific Target Organ Toxicity	Category 2	Oral
Acute aquatic toxicity	Category 3	--

### GHS-Labeling

**Contains:**

Glycerol (56-81-5), 2-Methoxy-1-propanol (1589-47-5), Ethoxylated tetramethyldecynediol (9014-85-1), Ethylene glycol (107-21-1), 2-methyl-2H-isothiazol-3-one (2682-20-4)

**Symbol(s):**



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**Signal word:** Danger

**Hazard statements:**

Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (Kidney) Harmful to aquatic life.

**Precautionary statements:**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF exposed or concerned: Get medical advice/ attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local regulation.

**HMIS IV Hazard Ratings:** Health - 2\*, Flammability - 1, Physical Hazard - 0

**NFPA Hazard Ratings:** Health - 2, Flammability - 1, Instability - 0

NOTE: HMIS IV 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 percent	Components - (CAS-No.)
5 - 10	Glycerol (56-81-5)
1 - < 10	Ethylene glycol (107-21-1)
1 - 5	Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)- (147-14-8)
0.1 - < 1	2-Methoxy-1-propanol (1589-47-5)
0.1 - < 1	Ethoxylated tetramethyldecynediol (9014-85-1)
0.01 - < 0.05	2-methyl-2H-isothiazol-3-one (2682-20-4)

## 4. First aid measures

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

**Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.

**Skin:** Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

**Ingestion:** If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

**Most important symptoms and effects, both acute and delayed:** Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Eye Irritation: Signs/symptoms may include localized redness, swelling, lachrymation, itching, dryness, and pain. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

## Indication of any immediate medical attention and special treatment needed:

**Treatment:** No information available.

## 5. Firefighting measures

**Extinguishing Media:** Water spray, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam.

### Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** Carbon oxides

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

**Unusual Fire and Explosion Hazards:** None.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Refer to protective measures listed in sections 7 and 8.

**Methods and materials for containment and cleaning up:** 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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**Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**For Large Spills:** Prevent runoff from entering drains, sewers, or streams.

### 7. Handling and storage

#### Precautions for safe handling

**Personal precautions:** Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapour. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Prevention of Fire and Explosion:** Keep from contact with oxidizing materials.

**Ventilation:** Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8).

**Conditions for safe storage, including any incompatibilities:** Keep in a dry, cool and well-ventilated place. Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from incompatible substances (see Incompatibility section.)

### 8. Exposure controls/personal protection

#### Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
Glycerol	OSHA	Time weighted average	15 mg/m3 <i>Form of exposure: mist, total particulate</i>
Glycerol		Time weighted average	5 mg/m3 <i>Form of exposure: mist, respirable fraction</i>
		Time weighted average	10 mg/m3 <i>Form of exposure: total dust</i>
		Time weighted average	5 ppm <i>Remarks: mist</i>
			<i>Form of exposure: respirable fraction</i>
			<i>Remarks: mist</i>
Ethylene glycol	ACGIH	Time weighted average	25 ppm <i>Form of exposure: vapor fraction</i>
		Short term exposure limit	10 mg/m3 <i>Form of exposure: inhalable particulate matter, aerosol only</i>
		Short term exposure limit	50 ppm <i>Form of exposure: vapor fraction</i>
		Ceiling Limit Value	100 mg/m3

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		Ceiling Limit Value	<i>Form of exposure: aerosol only</i> 50 ppm 125 mg/m3
			<i>Form of exposure: vapor</i> 1 mg/m3
Copper, (29H,31H- phthalocyaninato(2- )- .kappa.N29,.kappa. N30,.kappa.N31,.ka ppa.N32)-, (SP-4-1)-	ACGIH	Time weighted average	
			<i>Expressed as Cu</i> <i>Form of exposure: dust and mist</i>

**Appropriate engineering controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

## Individual protection measures, such as personal protective equipment

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

**Hand protection:** Wear protective gloves/ protective clothing.

**Respiratory protection:** 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.

## 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** cyan

**Odour:** No data available

**Specific gravity:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Boiling point/boiling range:** > 35 °C (> 95.0 °F) (estimated)

**Water solubility:** No data available

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**pH:** No data available

**Flash point:** > 93.3 °C (> 199.9 °F) (estimated)

**Evaporation rate:** No data available

**Flammability (Solid; gas):** No data available

**Upper explosion limit:** No data available

**Lower explosion limit:** No data available

**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

### 10. Stability and reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Hazardous polymerisation does not occur.

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

**Effects of Exposure**

**General advice:**

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Contains: Ethylene glycol. severe effects after repeated or prolonged exposure Can cause kidney damage.

Contains: 2-Methoxy-1-propanol. Can cause adverse reproductive effects such as birth defects, miscarriages, or infertility.

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

**Eyes:** Causes serious eye irritation.

**Skin:** Causes mild skin irritation.

**Ingestion:** May cause damage to organs through prolonged or repeated exposure if swallowed. May cause irritation of the gastrointestinal tract if swallowed.

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

### Acute Toxicity Data:

Oral LD50 (Rat): 12,600 mg/kg

- Inhalation LC50 (Rat): > 570 mg/m<sup>3</sup> / 1 hr
- Dermal LD50 (Rabbit): > 10 g/kg
- Skin irritation: slight
- Eye irritation: very slight

## Data for Ethylene glycol (CAS 107-21-1):

### Acute Toxicity Data:

Oral LDLo (Humans): 1,600 mg/kg

- Oral LD50 (Rat): 4,700 mg/kg
- Inhalation (Rat): 2.5 mg/l / 6 hr
- Dermal LD50 (Rabbit): 10,607 mg/kg
- Dermal LD50 (Rat): 10,600 mg/kg
- Skin irritation: Mild skin irritation
- Sensitisation (human): none
- Sensitisation (Guinea pig): none
- Eye irritation: none

## Data for Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)- (CAS 147-14-8):

### Acute Toxicity Data:

Oral LD50 (Rat): > 3,200 mg/kg

- Oral LD50 (male and female Rat): > 12,800 mg/kg
- Oral LD50 (male and female Mouse): > 24,600 mg/kg
- Oral LD50 (Rat): > 10,000 mg/kg
- Dermal LD50 (Guinea pig): > 5.000

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- Skin irritation: slight
- Sensitisation (Guinea pig): negative

### Data for 2-Methoxy-1-propanol (CAS 1589-47-5):

#### Acute Toxicity Data:

Oral LD50 (Rat): 5,710 mg/kg

- Dermal LD50 (Rabbit): 5,660 mg/kg
- Skin irritation: irritating
- Eye irritation: severe

### Data for Ethoxylated tetramethyldecynediol (CAS 9014-85-1):

#### Acute Toxicity Data:

Oral LD50 (Rat): 6,300 mg/kg

- Inhalation LC50 (Rat): > 20 mg/l / 1 hr
- Dermal LD50 (Rabbit): > 2,000 mg/kg (Highest dose tested - no evidence of absorption at this dose level.)
- Skin irritation: Mild skin irritation
- Eye irritation: severe

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

#### Repeated dose toxicity:

- Feeding study (28-day, Rat): NOEL; 6000 ppm
- Oral (90 days, Dog): NOEL; 200 mg/kg/day
- Oral (90 days, Dog): NOEL; 400 mg/kg/day (minor target organ effects: liver)

#### Reproductive Toxicity Data:

- Feeding Study (male and female Rat): NOEL for reproductive toxicity; 1,000 mg/kg/day

### Data for 2-methyl-2H-isothiazol-3-one (CAS 2682-20-4):

#### Acute Toxicity Data:

- Dermal LD50 (Rabbit): 200 mg/kg
- Sensitisation: positive

#### Carcinogenicity

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.



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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	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### 12. Ecological information

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

This product has not been tested for environmental effects.

#### Potential Toxicity:

Toxicity to fish (LC50):	10 - 100 mg/l estimated
Toxicity to daphnia (LC50):	10 - 100 mg/l estimated

**Persistence and degradability:** Readily biodegradable

#### Bioaccumulative potential

No data available

#### Mobility in soil

No information 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

Not regulated for all modes of transportation.

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

### 15. Regulatory information

#### Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	None listed
NLP	Listed
AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	Not all listed
PICCS	Not all listed
TCSI	Not all listed
TSCA 12(b)	Listed

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

#### Other regulations

U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):

Ethylene glycol

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U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	Ethylene glycol , Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)-
U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances:	Ethylene glycol , Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)-
U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S. - California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S. - California - 8 CCR Section 5209 Carcinogens:	No components found on the California Section 5209 Carcinogens List.
U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):	Glycerol , Ethylene glycol
U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):	Glycerol , Ethylene glycol
U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):	Glycerol , Ethylene glycol , Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)-
U.S. - Pennsylvania - Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):	Water , Glycerol , Ethylene glycol , Copper, (29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32)-, (SP-4-1)-

### 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:

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## KODAK Color Ink Cartridge / 10C, Cyan Ink

### Contains:

Glycerol (56-81-5), 2-Methoxy-1-propanol (1589-47-5), Ethoxylated tetramethyldecynediol (9014-85-1), Ethylene glycol (107-21-1), 2-methyl-2H-isothiazol-3-one (2682-20-4)

### Symbol(s):



**Signal word:** Danger

### Hazard statements:

Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (Kidney) Harmful to aquatic life.

### Precautionary statements:

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Wash hands thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF exposed or concerned: Get medical advice/ attention.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local regulation.

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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-2, F-1, C-0 REPO