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

Product name: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Cyan Ink

Product code: 3949948 - Cyan Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
5 - 10	glycerol	56-81-5	200-289-5	**
1 - < 10	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
1 - 5	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8	205-685-1	**
0.1 - < 1	1-methoxypropan-2-ol	107-98-2	203-539-1	R10*

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

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Extinguishing Media: Use appropriate agent for adjacent fire.

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

Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products., (see also Stability and Reactivity section).

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water to remove residual contamination.

Waste disposal: Contaminated absorbent should be disposed of in accordance with local regulations.

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 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: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Glycerol	EH40	time weighted average	10 mg/m ³
			<i>Form of exposure: mist</i>
		Short term exposure limit	30 mg/m ³
Ethylene glycol		time weighted average	10 mg/m ³
			<i>Form of exposure: particulate</i>
		time weighted average	20 ppm 52 mg/m ³
			<i>Form of exposure: vapour</i>
		Short term exposure limit	30 mg/m ³
			<i>Form of exposure: particulate</i>
Glycerol	HSA	time weighted average	40 ppm 104 mg/m ³
			<i>Form of exposure: vapour</i>
			<i>Potential for cutaneous absorption</i>
Ethylene glycol		Short term exposure limit	10 mg/m ³
			40 ppm 104 mg/m ³
			<i>Form of exposure: vapour</i>

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Potential for cutaneous absorption

Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

9. Physical and chemical properties

Physical form: liquid

Colour: blue cyan

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 90 - 95 %

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

Water solubility: no data available

pH: no data available

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

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

Ingestion: Expected to be a low ingestion hazard.

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

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg
- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
 - Dermal LD50 (rat): > 21,900 mg/kg
 - Skin irritation: No skin irritation
 - Eye irritation: No eye irritation

Data for Ethane-1,2-diol (CAS 107-21-1):

Acute Toxicity Data:

- Oral LD50 (rat): 6,140 mg/kg
- Dermal LD50 (rabbit): 10,611 mg/kg

Data for 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (CAS 147-14-8) (Hostaperm blue B2G):

Acute Toxicity Data:

- Oral LD50 (rat): > 3,200 mg/kg
- Dermal LD50 (guinea pig): >20 cc/kg
 - Skin irritation: slight
 - Skin Sensitization (guinea pig): negative

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (LC50): > 100 mg/l

Persistence and degradability: Not readily biodegradable.

13. Disposal considerations

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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
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
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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xn: Harmful

R10: Flammable.

R22: Harmful if swallowed.

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: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Magenta Ink

Product code: 3949948 - Magenta Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
5 - 10	glycerol	56-81-5	200-289-5	**
1 - < 10	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
1 - 5	Ethanesulfonic acid, 2-(methyl((9Z)-1-oxo-9-octadecenyl)amino)-, potassium salt	130976-49-7		Xi, N; R41, R51/53**
0.1 - < 1	1-methoxypropan-2-ol	107-98-2	203-539-1	R10*

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

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Extinguishing Media: Use appropriate agent for adjacent fire.

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

Hazardous Combustion Products: None., (see also Stability and Reactivity section).

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water to remove residual contamination.

Waste disposal: Contaminated absorbent should be disposed of in accordance with local regulations.

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 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: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value	
Glycerol	EH40	time weighted average	10 mg/m3	
			<i>Form of exposure: mist</i>	
		Short term exposure limit	30 mg/m3	
Ethylene glycol		time weighted average	10 mg/m3	
			<i>Form of exposure: particulate</i>	
		time weighted average	20 ppm 52 mg/m3	
			<i>Form of exposure: vapour</i>	
		Short term exposure limit	30 mg/m3	
			<i>Form of exposure: particulate</i>	
Glycerol	HSA	time weighted average	10 mg/m3	
		Ethylene glycol	Short term exposure limit	40 ppm 104 mg/m3
				<i>Form of exposure: vapour</i>
				<i>Potential for cutaneous absorption</i>

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Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

9. Physical and chemical properties

Physical form: liquid

Colour: magenta red

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 90 - 95 %

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

Water solubility: no data available

pH: no data available

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

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

Ingestion: Expected to be a low ingestion hazard.

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

Acute Toxicity Data:

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

- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
- Dermal LD50 (rat): > 21,900 mg/kg
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation

Data for Ethane-1,2-diol (CAS 107-21-1):

Acute Toxicity Data:

Oral LD50 (rat): 6,140 mg/kg

- Dermal LD50 (rabbit): 10,611 mg/kg

Data for Ethan磺onic acid, 2-(methyl((9Z)-1-oxo-9-octadecenyl)amino)-, potassium salt (CAS 130976-49-7):

Acute Toxicity Data:

Oral LD50 (female rat): > 2,000 mg/kg

- Oral LD50 (male rat): > 2,000 mg/kg
- Skin irritation: slight
- Skin Sensitization: negative
- Eye irritation (unwashed eyes): strong
- Eye irritation (washed eyes): strong

Mutagenicity/Genotoxicity Data:

Salmonella-E.coli/Mammalian-Microsome Reverse Mutation Assay with a Confirmatory Assay (TA98, TA100, TA1535, TA1537, E. coli WP2uvrA (pKM101)): negative (in presence and absence of activation)

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 (LC50): 10 - 100 mg/l

Persistence and degradability: Not readily biodegradable.

13. Disposal considerations

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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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
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
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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xi: Irritant

Xn: Harmful

N: Dangerous for the environment

R10: Flammable.

R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Photo Black Ink

Product code: 3949948 - Photo Black Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
5 - 10	glycerol	56-81-5	200-289-5	**
1 - 5	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
0.1 - < 1	1-methoxypropan-2-ol	107-98-2	203-539-1	R10*

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

Extinguishing Media: Use appropriate agent for adjacent fire.

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

Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products., (see also Stability and Reactivity section).

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water to remove residual contamination.

Waste disposal: Contaminated absorbent should be disposed of in accordance with local regulations.

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 with adequate ventilation. Wash thoroughly after handling.

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

Storage: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Glycerol	EH40	time weighted average	10 mg/m3
			<i>Form of exposure: mist</i>
		Short term exposure limit	30 mg/m3
Ethylene glycol		time weighted average	10 mg/m3
			<i>Form of exposure: particulate</i>
		time weighted average	20 ppm 52 mg/m3
			<i>Form of exposure: vapour</i>
		Short term exposure limit	30 mg/m3
			<i>Form of exposure: particulate</i>
Glycerol	HSA	time weighted average	40 ppm 104 mg/m3
			<i>Form of exposure: vapour</i>
			<i>Potential for cutaneous absorption</i>
		Short term exposure limit	10 mg/m3
Ethylene glycol			40 ppm 104 mg/m3
			<i>Form of exposure: vapour</i>
			<i>Potential for cutaneous absorption</i>

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Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

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: 90 - 95 %

Boiling point/boiling range: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.33 °C(> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

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

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

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg
- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
 - Dermal LD50 (rat): > 21,900 mg/kg
 - Skin irritation: No skin irritation
 - Eye irritation: No eye irritation

Data for Ethane-1,2-diol (CAS 107-21-1):

Acute Toxicity Data:

- Oral LD50 (rat): 6,140 mg/kg
- Dermal LD50 (rabbit): 10,611 mg/kg

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50):	> 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

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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

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Regulatory List	Notification status
TSCA	Not all listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	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
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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xn: Harmful

R10: Flammable.

R22: Harmful if swallowed.

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: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Protective Ink

Product code: 3949948 - Protective Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
10 - 15	glycerol	56-81-5	200-289-5	**
1 - < 10	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

Extinguishing Media: Use appropriate agent for adjacent fire.

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

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Hazardous Combustion Products: Fire or excessive heat may produce hazardous decomposition products., (see also Stability and Reactivity section).

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water 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 with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: The physical-chemical properties of this material have not been fully investigated. Keep from contact with oxidizing materials.

Storage: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Glycerol	EH40	time weighted average	10 mg/m3
		Short term exposure limit	30 mg/m3
Ethylene glycol		time weighted average	10 mg/m3
		time weighted average	20 ppm 52 mg/m3
		Short term exposure limit	30 mg/m3
		Short term exposure limit	40 ppm 104 mg/m3
Glycerol	HSA	time weighted average	10 mg/m3
Ethylene glycol		Short term exposure limit	40 ppm 104 mg/m3

Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

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Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

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: 85 - 90 %

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

Water solubility: no data available

pH: no data available

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

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

Ingestion: Expected to be a low ingestion hazard.

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

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Acute Toxicity Data:

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

- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
- Dermal LD50 (rat): > 21,900 mg/kg
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation

Data for Ethane-1,2-diol (CAS 107-21-1):

Acute Toxicity Data:

Oral LD50 (rat): 6,140 mg/kg

- Dermal LD50 (rabbit): 10,611 mg/kg

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (LC50): > 100 mg/l

Persistence and degradability: Not readily biodegradable.

13. Disposal considerations

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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
TSCA	Not all listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed

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AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	Not all listed
PICCS	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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xn: Harmful

R22: Harmful if swallowed.

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: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Text Black Ink

Product code: 3949948 - Text Black Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
10 - 20	2,2' -oxybisethanol	111-46-6	203-872-2	Xn; R22*
1 - 10	glycerol	56-81-5	200-289-5	**
0.1 - < 1	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
0.1 - < 1	1-methoxypropan-2-ol	107-98-2	203-539-1	R10*

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

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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: None., (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water to remove residual contamination.

Waste disposal: Contaminated absorbent should be disposed of in accordance with local regulations.

7. Handling and storage

Personal precautions: Avoid breathing mist or vapour. 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: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Diethylene glycol	EH40	time weighted average	23 ppm 101 mg/m ³
		Short term exposure limit	69 ppm 303 mg/m ³
Glycerol		time weighted average	10 mg/m ³
			<i>Form of exposure: mist</i>
		Short term exposure limit	30 mg/m ³
			<i>Form of exposure: mist</i>
Diethylene glycol	HSA	time weighted average	23 ppm 100 mg/m ³
Glycerol		time weighted average	10 mg/m ³

Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

9. Physical and chemical properties

Physical form: liquid (Aqueous solution)

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: 70 - 75 %

Boiling point/boiling range: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.33 °C(> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

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

Data for 2,2' -oxybisethanol (CAS 111-46-6):

Acute Toxicity Data:

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

- Dermal LD50 (rabbit): > 10,000 mg/kg

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- Skin irritation: slight to moderate
- Eye irritation: mild

Mutagenicity/Genotoxicity Data:

Ames test: negative (in presence and absence of activation)

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

Acute Toxicity Data:

- Oral LD50 (rat): 17,000 - 27,200 mg/kg
- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
 - Dermal LD50 (rat): > 21,900 mg/kg
 - Skin irritation: No skin irritation
 - Eye irritation: No eye irritation

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): > 100 mg/l

Persistence and degradability: Readily biodegradable.

13. Disposal considerations

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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
TSCA	Not all listed
DSL	Not all listed
NDSL	None listed
EINECS	Not all listed
ELINCS	Listed

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NLP	None 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
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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xn: Harmful

R10: Flammable.

R22: Harmful if swallowed.

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: BLK_CLR /10B+10C EAMER E/F/G/D/I/S, Yellow Ink

Product code: 3949948 - Yellow Ink

Supplier: KODAK LIMITED, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU, Great Britain

IN EMERGENCY, telephone: 0870-2430270. Available during office hours only.

For further information about this product, telephone 0870-2430270 or email kes@kodak.com.

Synonyms: None.

Product Use: ink or inkjet chemical

2. Hazards identification

This Safety Data Sheet conforms to REACH Regulation (EC) 1907/2006.

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

3. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
5 - 10	glycerol	56-81-5	200-289-5	**
1 - 5	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
1 - 5	Acrylate polymer	not available		**
0.1 - < 1	silicon dioxide	7631-86-9	231-545-4	**

* Symbol and R Phrase according to EC Annex I

** Substance not listed in EC Annex I

4. First aid measures

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

Eyes: In case of contact with eyes, flush immediately with plenty of water and seek medical attention.

Skin: Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical attention if symptoms occur.

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

5. Fire-fighting measures

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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: Fire or excessive heat may produce hazardous decomposition products., (see also Stability and Reactivity section).

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Personal precautions: See Section 8 for recommendations on the use of personal protective equipment.

Environmental precautions: Prevent spillage from entering drains. Absorb spill with vermiculite or other inert absorbant material such as sand or earth, then place in a suitable container for proper disposal. Clean surface thoroughly with water to remove residual contamination.

Waste disposal: Contaminated absorbent should be disposed of in accordance with local regulations.

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 with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: The physical-chemical properties of this material have not been fully investigated. Keep from contact with oxidizing materials.

Storage: Cool conditions (5 - 30°C). Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

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

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Glycerol	EH40	time weighted average	10 mg/m ³
			<i>Form of exposure: mist</i>
		Short term exposure limit	30 mg/m ³
Ethylene glycol		time weighted average	10 mg/m ³
			<i>Form of exposure: particulate</i>
		time weighted average	20 ppm 52 mg/m ³
			<i>Form of exposure: vapour</i>
		Short term exposure limit	30 mg/m ³
			<i>Form of exposure: particulate</i>
Glycerol	HSA	time weighted average	40 ppm 104 mg/m ³
			<i>Form of exposure: vapour</i>
			<i>Potential for cutaneous absorption</i>
Ethylene glycol		Short term exposure limit	40 ppm 104 mg/m ³
			<i>Form of exposure: vapour</i>

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Potential for cutaneous absorption

Ventilation: For use other than intended use (such as in the event of a large spill), proper ventilation may be required.

Respiratory protection: None should be needed under normal conditions of use.

Eye protection: None should be needed under normal conditions of use.

Skin and body protection: None should be needed.

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

9. Physical and chemical properties

Physical form: liquid

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 %

Boiling point/boiling range: no data available

Water solubility: soluble

pH: no data available

Flash point: > 93.33 °C(> 200.0 °F) (estimated)

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

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

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

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

Ingestion: Expected to be a low ingestion hazard.

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

Acute Toxicity Data:

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

- Inhalation LC50 (rat): > 570 mg/m³ / 1 hr
- Dermal LD50 (rat): > 21,900 mg/kg
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation

Data for Ethane-1,2-diol (CAS 107-21-1):

Acute Toxicity Data:

Oral LD50 (rat): 6,140 mg/kg

- Dermal LD50 (rabbit): 10,611 mg/kg

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): > 100 mg/l

Persistence and degradability: Readily biodegradable.

13. Disposal considerations

Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

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
TSCA	Not all listed
DSL	Not all listed

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NDSL	Listed
EINECS	Not all listed
ELINCS	Listed
NLP	None 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
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.

Labelling:

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.*

*Safety data sheet available for professional user on request.

16. Other information

The following is an explanation of the meaning of the Symbol letters and Risk Phrases for the pure substance(s) referred to in Section 2 of this Safety Data Sheet.

Xn: Harmful

R22: Harmful if swallowed.

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.
