

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 1/15



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

**1.1. Product identifier:** KODAK Ink Combo Pack / 10B + 10C, Cyan Ink

**Product code:** 3949948 - Cyan Ink

**Synonyms:** None.

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

**1.2.1. Identified uses:** ink or inkjet chemical

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

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

**1.4. Emergency telephone number:**

Available during office hours only. IN EMERGENCY, telephone: 844 892 0111.

## 2. Hazards identification

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

Hazard class / Hazard category	Hazard statements	Route of exposure
Eye Irrit. 2	H319	--
Repr. 2	H361	--

**2.2. Label elements:**

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.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** glycerol , 2-methoxypropanol , Ethoxylated tetramethyldecynediol

**Symbol(s):**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 2/15

---



**Signal word:** Warning

**Hazard statements:**

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

Contains: Isothiazolin derivative. May produce an allergic reaction.

**Precautionary statements:**

**Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wash hands thoroughly after handling.

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.

**2.3. Other hazards**

None known.

**3. Composition/information on ingredients**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 3/15

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
5 - 10	glycerol	56-81-5 200-289-5 not available	**	**
1 - < 10	ethanediol	107-21-1 203-473-3 01-2119456816-28-XXXX	Acute Tox. 4 H302 *	*
1 - 5	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	147-14-8 205-685-1 not available	**	**
0.1 - < 1	2-methoxypropanol	1589-47-5 216-455-5 not available	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 1B H360D STOT SE 3 H335 *	*
0.1 - < 1	Ethoxylated tetramethyldecynediol	9014-85-1 not available not available	Eye Dam. 1 H318 **	**
0.01 - < 0.05	Isothiazolin derivative	proprietary proprietary not available	Skin Corr. 1B H314 Eye Dam. 1 Skin Sens. 1 H317 STOT SE 3 H335 Aquatic Acute 1 H400 **	**

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

### 4. First aid measures

#### 4.1. Description of first aid measures

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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 4/15

---

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

**4.1.3. 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.

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

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** No information available.

### 5. Firefighting measures

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

**5.2. Special hazards arising from the substance or mixture**

**5.2.1. Hazardous Combustion Products:** Carbon oxides

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

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

### 6. Accidental release measures

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

**6.2. Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**6.3. 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.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

### 7. Handling and storage

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 5/15

## 7.1. Precautions for safe handling

**7.1.1. 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.

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

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

**7.2. 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.)

**7.3. Specific end use(s):** No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
			<i>Form of exposure: mist</i> <i>Remarks: calculated</i>
ethanediol		Time weighted average	10 mg/m <sup>3</sup>
			<i>Form of exposure: particulates</i>
		Time weighted average	20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
			<i>Form of exposure: particulate</i> <i>Remarks: calculated</i>
glycerol	HSA	Short term exposure limit	40 ppm 104 mg/m <sup>3</sup>
			<i>Form of exposure: vapour</i> <i>Potential for cutaneous absorption</i>
		Time weighted average	10 mg/m <sup>3</sup>
ethanediol		Short term exposure limit	30 mg/m <sup>3</sup>
			<i>Form of exposure: mist</i> <i>Remarks: calculated</i>
		Time weighted average	10 mg/m <sup>3</sup>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 6/15

---

Time weighted average	<i>Form of exposure: particulate</i> 20 ppm 52 mg/m <sup>3</sup>
Short term exposure limit	<i>Form of exposure: vapour</i> 104 mg/m <sup>3</sup>
Short term exposure limit	<i>Form of exposure: vapour</i> 40 ppm
	<i>Form of exposure: particulate</i> <i>Potential for cutaneous absorption</i>

## 8.2. Exposure controls

**8.2.1. 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.

### 8.2.2. Individual protection measures, such as personal protective equipment

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

**Hand protection:** Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

**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.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 7/15

---

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid

**Colour:** blue cyan

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

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

**Initial boiling point and boiling range:** > 35 °C (> 95.0 °F) (estimated)

**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

**Vapour pressure:** No data available

**Vapour density:** No data available

**Specific gravity:** No data available

**Water solubility:** 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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 8/15

---

**Explosive properties:** No data available

**Oxidizing properties:** No data available

### 10. Stability and reactivity

**10.1. Reactivity:** No data available

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

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

**10.4. Conditions to avoid:** No data available

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

#### Effects of Exposure

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

No data available

#### Corrosivity and irritation

- Skin irritation: Mild skin irritation
- Eye irritation (Irritating to eyes.):

#### Sensitisation

No data available

#### CMR effects

#### Germ cell mutagenicity

No information available.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 9/15

---

## Carcinogenicity

No information available.

## Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

### Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

- Ingestion (Kidney): May cause damage to organs through prolonged or repeated exposure.

## Aspiration hazard

No information available.

## Information on likely routes of exposure

**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 ethanediol (CAS 107-21-1):

### Acute Toxicity Data:

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

- Oral LD50 (Rat): 4,700 mg/kg

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 10/15

---

- 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
- Eye irritation: none
- Sensitisation (human): none
- Sensitisation (Guinea pig): none

### 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

- Oral LD50 (male and female Rat): > 12,800 mg/kg No information available.
- Oral LD50 (male and female Mouse): > 24,600 mg/kg No information available.
- Oral LD50 (Rat): > 10,000 mg/kg
- Dermal LD50 (Guinea pig): > 5.000 No information available.
- Skin irritation: slight
- Sensitisation (Guinea pig): negative

### Data for 2-methoxypropanol (CAS 1589-47-5):

#### Acute Toxicity Data:

- Skin irritation: irritating
- Eye irritation: severe

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

#### Acute Toxicity Data:

Oral LD50 (Rat): 6,300 mg/kg No information available.

- 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.) see user defined free text
- Skin irritation: Mild skin irritation
- Eye irritation: severe

#### Reproductive Toxicity Data:

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

#### 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)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 11/15

---

### Data for Isothiazolin derivative:

#### Acute Toxicity Data:

- Sensitisation: positive

## 12. Ecological information

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

This product has not been tested for environmental effects.

### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

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

**Waste material:** European Waste Catalogue EWC: 08 03 13 Waste ink other than those mentioned in 08 03 12

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 12/15

---

**Product containers:** If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. The European Waste Catalogue Code is 15 01 02 plastic packaging.

The product does not need to be labelled in accordance with EC directives or respective national laws. Dispose of contents/container in accordance with local regulation.

### 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

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Annex XIV - Substances Subject to Authorization

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Potential Substances of Very High Concern

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

##### 1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances

This mixture contains ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH): 2-methoxypropanol (216-455-5)

#### Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

This mixture does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

#### Notification status

Regulatory List	Notification status
TSCA	Not all listed

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 13/15

---

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.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

## 16. Other information

### 16.1. Indication of changes

Corrected/updated:

Multiple changes due to format update

Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 14/15

---

the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

### 16.3. Key literature references and sources for data

Available upon request.

### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

### 16.5. Relevant R- and H-phrases

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.

### 16.6. Training advice

Review Safety Data Sheet before using product.

### 16.7. Further information

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## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 09.02.2017

Print Date: 15.08.2017

000000035296/Version: 4.2

Page: 15/15

---

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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# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 1/13



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

**1.1. Product identifier:** KODAK Ink Combo Pack / 10B + 10C, Magenta Ink

**Product code:** 3949948 - Magenta Ink

**Synonyms:** None.

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

**1.2.1. Identified uses:** ink or inkjet chemical. For industrial use only.

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

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

**1.4. Emergency telephone number:**

Available during office hours only. IN EMERGENCY, telephone: 844 892 0111.

## 2. Hazards identification

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

Not hazardous according to GHS/Hazard Communication regulations. -- --

**2.2. Label elements:**

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.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** Components either non-hazardous or below regulatory thresholds

**Hazard statements:**

Not hazardous according to GHS/Hazard Communication regulations.



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 2/13

## Labelling according to 67/548/EEC or 1999/45/EC:

\*Safety data sheet available for professional user on request.

### 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
5 - 10	glycerol	56-81-5 200-289-5 not available	**	**
1 - < 10	ethanediol	107-21-1 203-473-3 01-2119456816-28-XXXX	Acute Tox. 4 H302 *	*
0.1 - < 1	1-methoxy-2-propanol	107-98-2 203-539-1 01-2119457435-35-XXXX	Flam. Liq. 3 H226 STOT SE 3 H336 *	*

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

The data in this MSDS refer to the small amount (gram quantities) of ink which is absorbed on a felt pad and contained in a plastic cartridge.

Approximately 80% of the ink is water.

## 4. First aid measures

### 4.1. Description of first aid measures

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

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 3/13

---

**4.1.2. Skin:** Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

**4.1.3. Eyes:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

**4.1.4. Ingestion:** If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** 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. Firefighting measures

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

**5.2. Special hazards arising from the substance or mixture**

**5.2.1. Hazardous Combustion Products:** Carbon oxides

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

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

## 6. Accidental release measures

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

**6.2. Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**6.3. 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.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

## 7. Handling and storage

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 4/13

## 7.1. Precautions for safe handling

**7.1.1. Personal precautions:** No special precautionary measures should be needed under anticipated conditions of use. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

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

**7.2. Conditions for safe storage, including any incompatibilities:** Keep in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from incompatible substances (see Incompatibility section.)

**7.3. Specific end use(s):** No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
ethanediol		Time weighted average	10 mg/m <sup>3</sup>
		Time weighted average	20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
		Short term exposure limit	40 ppm 104 mg/m <sup>3</sup>
glycerol	HSA	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
ethanediol		Time weighted average	10 mg/m <sup>3</sup>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 5/13

---

Time weighted average	<i>Form of exposure: particulate</i> 20 ppm 52 mg/m <sup>3</sup>
Short term exposure limit	<i>Form of exposure: vapour</i> 104 mg/m <sup>3</sup>
Short term exposure limit	<i>Form of exposure: vapour</i> 40 ppm
	<i>Form of exposure: particulate</i> <i>Potential for cutaneous absorption</i>

## 8.2. Exposure controls

**8.2.1. 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.

### 8.2.2. Individual protection measures, such as personal protective equipment

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

**Hand protection:** Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

**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.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 6/13

---

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid

**Colour:** magenta red

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

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

**Initial boiling point and boiling range:** > 35 °C (> 95.0 °F) (estimated)

**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

**Vapour pressure:** No data available

**Vapour density:** No data available

**Specific gravity:** No data available

**Water solubility:** 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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 7/13

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**Explosive properties:** No data available

**Oxidizing properties:** No data available

### 10. Stability and reactivity

**10.1. Reactivity:** No data available

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

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

**10.4. Conditions to avoid:** No data available

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

#### Effects of Exposure

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

No data available

#### Corrosivity and irritation

No data available

#### Sensitisation

No data available

#### CMR effects

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 8/13

---

No information available.

### Reproductive toxicity

No information available.

### Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

No information available.

### Aspiration hazard

No information available.

### Information on likely routes of exposure

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

**Eyes:** 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):

#### 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 ethanediol (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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 9/13

---

- Dermal LD50 (Rat): 10,600 mg/kg
- Skin irritation: Mild skin irritation
- Eye irritation: none
- Sensitisation (human): none
- Sensitisation (Guinea pig): none

### Data for 1-methoxy-2-propanol (CAS 107-98-2):

#### Acute Toxicity Data:

Oral LD50 (Rat): 2,973 - 7,986 mg/kg

- Inhalation LC50 (Rat): > 10000 ppm / 4 hr
- Inhalation LC50 (Rat): >7559 ppm / 6 hr
- Dermal LD50 (Rabbit): 13,000 mg/kg
- Skin irritation: none
- Eye irritation: slight

#### Carcinogenicity:

Inhalation (male and female Rat, 2 years): NOEL; 3,000 ppm

#### Reproductive Toxicity Data:

Inhalation (male and female Rat): NOEL for reproductive toxicity; 1,000 ppm

- Inhalation (male and female Rat): LOEL for reproductive toxicity; 3,000 ppm

#### Developmental Toxicity Data:

Inhalation (female Rat): NOAEL for developmental toxicity; 3,000ppm

## 12. Ecological information

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

This product has not been tested for environmental effects.

### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable

### 12.3. Bioaccumulative potential



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 10/13

---

No data available

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

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

**Waste material:** European Waste Catalogue EWC: 08 03 13 Waste ink other than those mentioned in 08 03 12

**Product containers:** If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. The European Waste Catalogue Code is 15 01 06 mixed packaging.

The product does not need to be labelled in accordance with EC directives or respective national laws. Dispose of contents/container in accordance with local regulation.

## 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

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 1907/2006/EC - Potential Substances of Very High Concern

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 11/13

---

### **1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation**

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

### **1907/2006/EC - Annex XIV - Substances Subject to Authorization**

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

### **1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances**

This mixture contains ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH): 2-methoxypropanol (216-455-5)

### **Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants**

This mixture does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

### **Notification status**

<b>Regulatory List</b>	<b>Notification status</b>
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.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 12/13

---

## 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

## 16. Other information

### 16.1. Indication of changes

Corrected/updated:

Multiple changes due to format update

Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

### 16.3. Key literature references and sources for data

Available upon request.

### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

### 16.5. Relevant R- and H-phrases

H226

Flammable liquid and vapour.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035340/Version: 3.2

Page: 13/13

---

H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.

### 16.6. Training advice

Review Safety Data Sheet before using product.

### 16.7. Further information

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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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# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 1/13



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

**1.1. Product identifier:** KODAK Ink Combo Pack / 10B + 10C, Yellow Ink

**Product code:** 3949948 - Yellow Ink

**Synonyms:** None.

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

**1.2.1. Identified uses:** ink or inkjet chemical

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

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

**1.4. Emergency telephone number:**

Available during office hours only. IN EMERGENCY, telephone: 844 892 0111.

## 2. Hazards identification

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

Hazard class / Hazard category	Hazard statements	Route of exposure
Repr. 1B	H360	--
STOT SE 1	H370	Oral
Aquatic Chronic 3	H412	--

**2.2. Label elements:**

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.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** glycerol , ethanediol , Ethanesulfonic acid, 2-(methyl((9Z)-1-oxo-9-octadecenyl)amino)-, potassium salt

**Symbol(s):**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 2/13



**Signal word:** Danger

## Hazard statements:

May damage fertility or the unborn child.

Causes damage to organs if swallowed.

*Kidney*

*Central nervous system*

Harmful to aquatic life with long lasting effects.

## Precautionary statements:

### Prevention

Obtain special instructions before use.

Use personal protective equipment as required.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Avoid release to the environment.

### Response

IF exposed: Call a POISON CENTER or doctor/ physician.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
5 - 10	glycerol	56-81-5 200-289-5	**	**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 3/13

		not available		
1 - 5	ethanediol	107-21-1 203-473-3 01-2119456816-28-XXXX	Acute Tox. 4 H302 *	*
0.1 - < 1	silicon dioxide	7631-86-9 231-545-4 not available	**	**
0.1 - < 1	Ethanesulfonic acid, 2-(methyl((9Z)-1-oxo-9-octadecenyl)amino)-, potassium salt	130976-49-7 not available not available	Eye Dam. 1 H318 Aquatic Chronic 2 H411 **	**

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

### 4. First aid measures

#### 4.1. Description of first aid measures

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

**4.1.2. Skin:** Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

**4.1.3. Eyes:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

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

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** No information available.

### 5. Firefighting measures

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

**5.2. Special hazards arising from the substance or mixture**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 4/13

---

**5.2.1. Hazardous Combustion Products:** Carbon oxides

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

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

### 6. Accidental release measures

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

**6.2. Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**6.3. 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.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**7.1.1. 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.

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

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

**7.2. 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.)

**7.3. Specific end use(s):** No information available.

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

**8.1.1. Occupational exposure controls**



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 5/13

---

Chemical name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
ethanediol		Time weighted average	10 mg/m <sup>3</sup>
		Time weighted average	20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
		Short term exposure limit	40 ppm 104 mg/m <sup>3</sup>
glycerol	HSA	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
ethanediol		Time weighted average	10 mg/m <sup>3</sup>
		Time weighted average	20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	104 mg/m <sup>3</sup>
		Short term exposure limit	40 ppm

### 8.2. Exposure controls

**8.2.1. 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.

### 8.2.2. Individual protection measures, such as personal protective equipment

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

**Hand protection:** Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 6/13

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substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

**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.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid

**Colour:** yellow

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

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

**Initial boiling point and boiling range:** No data available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 7/13

---

**Flash point:** > 93.33 °C(> 200.0 °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

**Vapour pressure:** No data available

**Vapour density:** No data available

**Specific gravity:** No data available

**Water solubility:** soluble

**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

**10.1. Reactivity:** No data available

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

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

**10.4. Conditions to avoid:** No data available

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 8/13

---

## 11. Toxicological information

### Effects of Exposure

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

No data available

#### Corrositivity and irritation

- Skin irritation: Mild skin irritation

#### Sensitisation

No data available

#### CMR effects

##### Germ cell mutagenicity

No information available.

#### Carcinogenicity

No information available.

#### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

##### Specific target organ toxicity - single exposure

- Ingestion (Kidney): Causes damage to organs.
- Ingestion (Central nervous system): Causes damage to organs.

##### Specific target organ toxicity - repeated exposure

No information available.

#### Aspiration hazard

No information available.

#### Information on likely routes of exposure

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 9/13

---

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

**Eyes:** May cause transient irritation.

**Skin:** Causes mild skin irritation.

**Ingestion:** Can cause kidney damage and CNS effects following ingestion.

### 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 ethanediol (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
- Eye irritation: none
- Sensitisation (human): none
- Sensitisation (Guinea pig): none

## 12. Ecological information

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

This product has not been tested for environmental effects.

### 12.1. Toxicity

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

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

Toxicity to algae (EC50): 10 - 100 mg/l estimated

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 10/13

---

### 12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

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](http://www.kodak.com/go/ship).

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

#### 1907/2006/EC - Annex XIV - Substances Subject to Authorization

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 11/13

---

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

### **1907/2006/EC - Potential Substances of Very High Concern**

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

### **1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances**

This mixture does not contain ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH)

### **Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants**

This mixture does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

### **Notification status**

<b>Regulatory List</b>	<b>Notification status</b>
TSCA	Not all listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	None 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
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.

### **15.2. Chemical safety assessment**

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 12/13

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Chemical safety assessment has not been performed.

### 16. Other information

#### 16.1. Indication of changes

Corrected/updated:

Multiple changes due to format update

Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

#### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

#### 16.3. Key literature references and sources for data

Available upon request.

#### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

#### 16.5. Relevant R- and H-phrases

H302 Harmful if swallowed.

H318 Causes serious eye damage.



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035344/Version: 3.2

Page: 13/13

---

H360	May damage fertility or the unborn child.
H370	Causes damage to organs if swallowed.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

Review Safety Data Sheet before using product.

### 16.7. Further information

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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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# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 1/13



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

**1.1. Product identifier:** KODAK Ink Combo Pack / 10B + 10C, Photo Black Ink

**Product code:** 3949948 - Photo Black Ink

**Synonyms:** None.

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

**1.2.1. Identified uses:** ink or inkjet chemical

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

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

**1.4. Emergency telephone number:**

Available during office hours only. IN EMERGENCY, telephone: 844 892 0111.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to EU Directives 1272/2008/EC [CLP/GHS]:**

Hazard class / Hazard category	Hazard statements	Route of exposure
Repr. 1B	H361	--
STOT SE 1	H370	Oral

### 2.2. Label elements:

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.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** ethanediol , glycerol , 1-methoxy-2-propanol

**Symbol(s):**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 2/13



**Signal word:** Danger

## Hazard statements:

Suspected of damaging fertility or the unborn child.

Causes damage to organs if swallowed.

*Kidney*

*Central nervous system*

## Precautionary statements:

### Prevention

Use personal protective equipment as required.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Wash thoroughly after handling.

### Response

IF exposed: Call a POISON CENTER or doctor/ physician.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
5 - 10	glycerol	56-81-5 200-289-5 not available	**	**
1 - 5	ethanediol	107-21-1 203-473-3 01-2119456816-28-XXXX	Acute Tox. 4 H302 *	*

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 3/13

0.1 - < 1	1-methoxy-2-propanol	107-98-2	Flam. Liq. 3 H226	*
		203-539-1	STOT SE 3 H336	
		01-2119457435-35-XXXX	*	
0.1 - 0.5	Carbon black	1333-86-4	**	**
		215-609-9		
		not available		

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

### 4. First aid measures

#### 4.1. Description of first aid measures

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

**4.1.2. Skin:** Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

**4.1.3. Eyes:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

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

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** No information available.

### 5. Firefighting measures

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

#### 5.2. Special hazards arising from the substance or mixture

**5.2.1. Hazardous Combustion Products:** Carbon oxides

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

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 4/13

## 6. Accidental release measures

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

**6.2. Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**6.3. 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.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

## 7. Handling and storage

### 7.1. Precautions for safe handling

**7.1.1. 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.

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

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

**7.2. 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.)

**7.3. Specific end use(s):** No information available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: mist</i> 30 mg/m <sup>3</sup>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 5/13

---

ethanediol		Time weighted average	<i>Form of exposure: mist</i> <i>Remarks: calculated</i> 20 ppm 52 mg/m <sup>3</sup>
		Time weighted average	<i>Form of exposure: vapour</i> 10 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: particulates</i> 40 ppm 104 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: vapour</i> 30 mg/m <sup>3</sup>
glycerol	HSA	Time weighted average	<i>Form of exposure: particulate</i> <i>Remarks: calculated</i> <i>Potential for cutaneous absorption</i> 10 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: mist</i> 30 mg/m <sup>3</sup>
ethanediol		Time weighted average	<i>Form of exposure: mist</i> <i>Remarks: calculated</i> 10 mg/m <sup>3</sup>
		Time weighted average	<i>Form of exposure: particulate</i> 20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: vapour</i> 104 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: vapour</i> 40 ppm <i>Form of exposure: particulate</i> <i>Potential for cutaneous absorption</i>

## 8.2. Exposure controls

**8.2.1. 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.

### 8.2.2. Individual protection measures, such as personal protective equipment

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

**Hand protection:** Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 6/13

---

Neoprene	>= 0.65 mm	> 240 min
butyl-rubber	>= 0.36 mm	> 480 min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

**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.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

**Physical state:** liquid

**Colour:** black

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

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

**Initial boiling point and boiling range:** No data available

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

**Evaporation rate:** No data available

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

**Upper explosion limit:** No data available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 7/13

---

**Lower explosion limit:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Specific gravity:** No data available

**Water solubility:** soluble

**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

**10.1. Reactivity:** No data available

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

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

**10.4. Conditions to avoid:** No data available

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

#### Effects of Exposure

#### Toxicokinetics, metabolism and distribution

No data available



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 8/13

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## Acute toxicity

No data available

## Corrositivity and irritation

- Skin irritation: Mild skin irritation

## Sensitisation

No data available

## CMR effects

### Germ cell mutagenicity

No information available.

## Carcinogenicity

No information available.

## Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

### Specific target organ toxicity - single exposure

- Ingestion (Kidney): Causes damage to organs.
- Ingestion (Central nervous system): Causes damage to organs.

### Specific target organ toxicity - repeated exposure

No information available.

## Aspiration hazard

No information available.

## Information on likely routes of exposure

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

**Eyes:** May cause transient irritation.

**Skin:** Causes mild skin irritation.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 9/13

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**Ingestion:** Can cause kidney damage and CNS effects following ingestion.

### 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 ethanediol (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
- Eye irritation: none
- Sensitisation (human): none
- Sensitisation (Guinea pig): none

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

#### Acute Toxicity Data:

Oral LD50 (Rat): > 5,000 mg/kg

- Oral LD50 (Rat): > 15,400 mg/kg
- Dermal LD50 (Rabbit): > 3,000 mg/kg
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation
- Sensitisation (Guinea pig): Did not cause sensitisation on laboratory animals.

#### 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)

## 12. Ecological information

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

This product has not been tested for environmental effects.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 10/13

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### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

### Additional ecological information:

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

Biochemical Oxygen Demand (BOD): ca. 107 g/l

## 13. Disposal considerations

### 13.1. Waste treatment methods

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.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 11/13

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

### 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 1907/2006/EC - Potential Substances of Very High Concern

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

##### 1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Annex XIV - Substances Subject to Authorization

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).

##### 1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances

This mixture contains ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH): 2-methoxypropanol (216-455-5)

#### Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

This mixture does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

#### Notification status

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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 12/13

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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.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

## 16. Other information

### 16.1. Indication of changes

Corrected/updated:

Multiple changes due to format update

Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 19.08.2016

Print Date: 15.08.2017

000000035341/Version: 3.1

Page: 13/13

---

### 16.3. Key literature references and sources for data

Available upon request.

### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

### 16.5. Relevant R- and H-phrases

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs if swallowed.

### 16.6. Training advice

Review Safety Data Sheet before using product.

### 16.7. Further information

---

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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# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 1/13



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

**1.1. Product identifier:** KODAK Ink Combo Pack / 10B + 10C, Protective Ink

**Product code:** 3949948 - Protective Ink

**Synonyms:** None.

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

**1.2.1. Identified uses:** ink or inkjet chemical

**1.3. Details of the supplier of the safety data sheet:** KODAK LIMITED, Building 8, Croxley Green Business Park, Hatters Lane, Watford, WD18 8PX, Great Britain

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

**1.4. Emergency telephone number:**

Available during office hours only. IN EMERGENCY, telephone: 844 892 0111.

## 2. Hazards identification

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP):**

Hazard class / Hazard category	Hazard statements	Route of exposure
Repr. 2	H361	--
STOT SE 1	H370	--

**2.2. Label elements:**

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.

**Labelling according to 1272/2008/EC [CLP/GHS]:**

**Contains:** glycerol , ethanediol

**Symbol(s):**

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 2/13



**Signal word:** Danger

## Hazard statements:

Suspected of damaging fertility or the unborn child.

Causes damage to organs if swallowed.

*Kidney*

*Central nervous system*

## Precautionary statements:

### Prevention

Use personal protective equipment as required.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Do not eat, drink or smoke when using this product.

### Response

IF exposed: Call a POISON CENTER or doctor/ physician.

### Storage

Store in a well-ventilated place. Keep cool.

### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3. Other hazards

None known.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No. EC No. REACH Reg. No.	Classification according to 1272/2008/EC	Classification according to 67/548/EEC
10 - 15	glycerol	56-81-5		**



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 3/13

		200-289-5 not available	**		
1 - < 10	ethanediol	107-21-1 203-473-3 01-2119456816-28-XXXX	Acute Tox. 4 H302 *	*	

Full text of R- and H-phrases: see Section 16.

\* Substance classification as listed in Annex VI to Regulation (EC) No 1272/2008

\*\* Substance not listed in Annex VI to Regulation (EC) No 1272/2008

### 4. First aid measures

#### 4.1. Description of first aid measures

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

**4.1.2. Skin:** Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.

**4.1.3. Eyes:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms persist.

**4.1.4. Ingestion:** If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed:** No information available.

**4.3. Indication of any immediate medical attention and special treatment needed:** No information available.

### 5. Firefighting measures

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

#### 5.2. Special hazards arising from the substance or mixture

**5.2.1. Hazardous Combustion Products:** Carbon oxides

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

**5.3. Advice for firefighters:** Wear self-contained breathing apparatus and protective suit. Fire or excessive heat may produce hazardous decomposition products.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 4/13

### 6. Accidental release measures

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

**6.2. Environmental precautions:** Prevent runoff from entering drains, sewers, or streams.

**6.3. 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.

**6.4. Reference to other sections:** See Section 8 for recommendations on the use of personal protective equipment.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**7.1.1. 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.

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

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

**7.2. 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.)

**7.3. Specific end use(s):** No information available.

### 8. Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure controls

Chemical name	Regulatory List	Value Type	Value
glycerol	EH40	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	30 mg/m <sup>3</sup>
			<i>Form of exposure: mist</i>
			<i>Form of exposure: mist</i>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 5/13

---

ethanediol		Time weighted average	<i>Remarks: calculated</i> 10 mg/m <sup>3</sup>
		Time weighted average	<i>Form of exposure: particulates</i> 20 ppm 52 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: vapour</i> 30 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: particulate</i> <i>Remarks: calculated</i> 40 ppm 104 mg/m <sup>3</sup>
			<i>Form of exposure: vapour</i> <i>Potential for cutaneous absorption</i>
glycerol	HSA	Time weighted average	10 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: mist</i> 30 mg/m <sup>3</sup>
			<i>Form of exposure: mist</i> <i>Remarks: calculated</i> 10 mg/m <sup>3</sup>
ethanediol		Time weighted average	<i>Form of exposure: particulate</i> 20 ppm 52 mg/m <sup>3</sup>
		Time weighted average	<i>Form of exposure: vapour</i> 104 mg/m <sup>3</sup>
		Short term exposure limit	<i>Form of exposure: vapour</i> 40 ppm
		Short term exposure limit	<i>Form of exposure: particulate</i> <i>Potential for cutaneous absorption</i>

## 8.2. Exposure controls

**8.2.1. 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.

### 8.2.2. Individual protection measures, such as personal protective equipment

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

**Hand protection:** Using the information provided in Section 2, seek the advice of the glove supplier as to the most suitable glove material. Avoid skin contact when mixing or handling the substance/preparation or a mixture by wearing impervious gloves and protective clothing appropriate to the risk of exposure.

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact:

Material	Thickness	Breakthrough time
Nitrile rubber	>= 0.38 mm	> 480 min
Neoprene	>= 0.65 mm	> 240 min

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 6/13

---

butyl-rubber

$\geq 0.36$  mm

$> 480$  min

Avoid natural rubber gloves.

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374. This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

**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.

**General health and safety measures:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

**8.2.3. Environmental exposure controls:** No information available.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid

**Colour:** No data available

**Odour:** No data available

**Odour Threshold:** No data available

**pH:** No data available

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

**Initial boiling point and boiling range:**  $> 35$  °C ( $> 95.0$  °F) (estimated)

**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

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 7/13

---

**Lower explosion limit:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Specific gravity:** No data available

**Water solubility:** 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

**10.1. Reactivity:** No data available

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

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

**10.4. Conditions to avoid:** No data available

**10.5. Incompatible materials:** Strong oxidizing agents.

**10.6. Hazardous decomposition products:** Carbon oxides

### 11. Toxicological information

#### Effects of Exposure

#### Toxicokinetics, metabolism and distribution

No data available

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 8/13

---

### Acute toxicity

No data available

### Corrositivity and irritation

No data available

### Sensitisation

No data available

### CMR effects

#### Germ cell mutagenicity

No information available.

### Carcinogenicity

No information available.

### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

#### Specific target organ toxicity - single exposure

- Ingestion (Kidney): Causes damage to organs.

#### Specific target organ toxicity - repeated exposure

No information available.

### Aspiration hazard

No information available.

### Information on likely routes of exposure

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

**Eyes:** May cause transient irritation.

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

**Ingestion:** Can cause kidney damage.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 9/13

---

### 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 ethanediol (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
- Eye irritation: none
- Sensitisation (human): none
- Sensitisation (Guinea pig): none

## 12. Ecological information

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

This product has not been tested for environmental effects.

### 12.1. Toxicity

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

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

### 12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 10/13

---

No information available.

### 12.5. Results of PBT and vPvB assessment

No information available.

### 12.6. Other adverse effects

No information available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

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

**Waste material:** European Waste Catalogue EWC: 08 03 13 Waste ink other than those mentioned in 08 03 12

**Product containers:** If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. The European Waste Catalogue Code is 15 01 06 mixed packaging.

The product does not need to be labelled in accordance with EC directives or respective national laws. Dispose of contents/container in accordance with local regulation.

## 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

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorisation

This mixture contains no ingredient which is subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

#### 1907/2006/EC - Annex XIV - Substances Subject to Authorization

This mixture does not contain substances which are subject to an authorization according to Regulation (EC) No. 1907/2006 (REACH).



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 11/13

---

### 1907/2006/EC - Potential Substances of Very High Concern

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

### 1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances

This mixture does not contain ingredients which are subject to restrictions according to Regulation (EC) No. 1907/2006 (REACH)

### Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

This mixture does not contain substances listed in Detergents Regulation (648/2004) - Derogations and Banned or Restricted Detergent Surfactants

### 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
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.

### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

<b>16. Other information</b>
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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 12/13

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### 16.1. Indication of changes

Corrected/updated:

Multiple changes due to format update

Minor changes may be present due to component or regulatory data updates

Review Safety Data Sheet before using product.

### 16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS = Australian Inventory of Chemical Substances; CAS = Chemical Abstracts Service; CLP = Classification, Labelling, and Packaging; DSL = Canada Domestic Substances List; EC = European Commission; EC50 = Effective Concentration 50%; ECI = Korea Existing Chemicals list; EH40 = EH40/2005 Workplace Exposure Limits; EINECS = European Inventory of Existing Commercial chemical Substances; ELINCS = European List of Notified Chemical Substances; ENCS = Japan Existing and New Chemical Substances; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; HSA = Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents); IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; IC50 = Inhibitory Concentration 50%; IECS = China Inventory of Existing Chemical Substances; IMDG = International Maritime Dangerous Goods; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NDSL = Canada Non-Domestic Substances List; NLP = Europe No Longer Polymers; NZIoC = New Zealand Inventory of Chemicals; PBT = Persistent, Bioaccumulative and Toxic substances; PICCS = Philippines Inventory of Chemicals and Chemical Substances; ppm = parts per million; REACH= Registration, Evaluation and Authorization of Chemicals; RID = European Agreement concerning the International Carriage of Dangerous Goods by Rail; TSCA = Toxic Substances Control Act; vPvB = very Persistent, very Bioaccumulative substances

### 16.3. Key literature references and sources for data

Available upon request.

### 16.4. Methods used for classification of mixture according to Regulation (EC) No 1272/2008

The determination of classifications is derived via expert judgment and/or weight of evidence.

### 16.5. Relevant R- and H-phrases

H302	Harmful if swallowed.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs if swallowed.

### 16.6. Training advice

## **Safety Data Sheet**

according to Regulation (EC) No. 1907/2006

Approval/Revision date: 14.02.2017

Print Date: 15.08.2017

000000035345/Version: 3.2

Page: 13/13

---

Review Safety Data Sheet before using product.

### **16.7. Further information**

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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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