

# Safety Data Sheet

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

**Product name:** 200 Thermal Plate Developer

**Product code:** 9288671

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

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

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

**Synonyms:** None.

**Product Use:** plate processing chemical, For industrial use only.

## 2. Hazards identification

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

**Product:** Irritant. Irritating to eyes and skin.

## 3. Composition/information on ingredients

Weight percent	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
5 - < 10	Silicic acid, potassium salt	1312-76-1	215-199-1	C; R34**
5 - < 10	Ethane-1,2-diol	107-21-1	203-473-3	Xn; R22*
1 - < 5	tripotassium orthophosphate	7778-53-2	231-907-1	Xi; R36/37/38**
1 - < 5	glycerol	56-81-5	200-289-5	**

\* Symbol and R Phrase according to EC Annex I

\*\* Substance not listed in EC Annex I

## 4. First aid measures

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

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

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

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

## 5. Fire-fighting measures

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**Extinguishing Media:** Use appropriate agent for adjacent fire.

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

**Hazardous Combustion Products:** Fire or excessive heat may produce hazardous decomposition products.

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

## 6. Accidental release measures

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

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

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

## 7. Handling and storage

**Personal precautions:** Avoid breathing mist or vapour. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

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

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

**Ventilation:** Match ventilation rates to conditions of use so as not to exceed any applicable exposure limits (see Section 8). Good general ventilation of 10 or more room volumes per hour in the work area is recommended.

## 8. Exposure controls/personal protection

### Occupational exposure controls

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

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**Ventilation:** Avoid exposure to mists and vapours by mixing solutions in closed vessels and/or under local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

**Eye protection:** Wear safety glasses with side shields or protective goggles whenever mixing or handling solutions.

**Skin and body 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.

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

### 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** colourless

**Odour:** odourless

**Specific gravity:** 1.1228

**Vapour pressure:** no data available

**Vapour density:** no data available

**Volatile fraction by weight:** 75 - 80 %

**Boiling point/boiling range:** > 100 °C (212.0 °F)

**Melting point/range:** < 0 °C (32.0 °F)

**Water solubility:** soluble

**pH:** > 13

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

### 10. Stability and reactivity

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**Stability:** Stable under normal conditions.

**Incompatibility:** Strong oxidizing agents, Strong acids.

**Hazardous decomposition products:** Carbon oxides

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

## 11. Toxicological information

### Effects of Exposure

#### General advice:

Contains: Ethane-1,2-diol. Harmful or fatal if swallowed. Can cause kidney damage and CNS effects following ingestion. May cause adverse reproductive effects following ingestion based on animal data.

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

**Eyes:** Irritating to eyes.

**Skin:** Irritating to skin.

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

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

##### Acute Toxicity Data:

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

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

#### Data for Silicic acid, potassium salt (CAS 1312-76-1):

##### Acute Toxicity Data:

Oral LD50 (rat): 1,300 mg/kg

#### Data for tripotassium orthophosphate (CAS 7778-53-2):

##### Acute Toxicity Data:

Oral LD50 (rat): 1,600 - 3,200 mg/kg (10% in water)

- Oral LD50 (rat): > 3,200 mg/kg
- Dermal LD50 (guinea pig): > 1,000 mg/kg
- Skin irritation: moderate to strong
- Eye irritation: severe

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

##### Acute Toxicity Data:

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

- Dermal LD50 (rat): > 21,900 mg/kg
- Skin irritation: No skin irritation
- Eye irritation: No eye irritation

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## 12. Ecological information

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

### Potential Toxicity:

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

**Persistence and degradability:** Readily biodegradable.

## 13. Disposal considerations

This information is provided to assist users in the correct disposal of working solutions prepared and used to Kodak specifications.

**Working solution:** Waste material is currently classified as hazardous under Council Directive 91/689/EEC. The European Waste Catalogue Code is 09 01 02 Water based offset plate developer solutions. Dispose according to the local regulations or guidelines that apply to the category of waste. Ensure the use of properly authorised waste management companies.

**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. Whenever possible, minimize waste by using the rinsing water to make up the working solution. The European Waste Catalogue Code is 15 01 02 plastic packaging.

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

### Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed

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ENCS	Not all listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

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

### Labelling:

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.

**Contains:** Silicic acid, potassium salt , tripotassium orthophosphate , Ethane-1,2-diol

**pH:** > 12



**Symbol/Indication of Danger:** Xi: Irritant

**Risk Phrases:** R36/38: Irritating to eyes and skin.

### 16. Other information

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

Xi: Irritant  
Xn: Harmful  
C: Corrosive

R22: Harmful if swallowed.  
R34: Causes burns.  
R36/37/38: Irritating to eyes, respiratory system and skin.

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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

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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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