

Carestream Health UK Limited  
Hemel One, Boundary Way  
HP2 7YU Hemel Hempstead, Hertfordshire

BILLERICAY DENTAL SUPPLY CO LTD  
PERRY WAY 3 WITHAM  
CM8 3SX ESSEX  
United Kingdom

0000335791

05.06.2007

Dear Customer,

### PRODUCT SAFETY INFORMATION

We are pleased to enclose the safety data sheet(s) listed on the reverse of this letter.

These safety data sheets are being sent to you for one or more of the following shipping reasons:

**In response to your recent order for chemical product(s) for which you have not already been sent sheets.**

**Subsequent Shipping:** Because there has been a significant revision of the information contained within the safety data sheet which has previously been supplied to you. This sheet should replace the one already supplied.

**Manual Request:** In response to your recent enquiry. Please check that the Material Number listed on each safety data sheet corresponds with the number shown on the products that you hold.

These safety data sheets are provided to assist you in managing your health, safety and environmental responsibilities, and, in the case of a significant revision, may lead you to reassess your working practices.

Should you require further health, safety and environmental advice, please contact us. Also note that safety data sheets are available through the Kodak website at [www.carestreamhealth.com/go/msds2](http://www.carestreamhealth.com/go/msds2).

Thank you for purchasing KODAK products.

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Shipping Reason	Material No	Product Name
0210053462 / 000110	5010459	KODAK Rapid Access Dental Developer

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## Safety Data Sheet

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

**Product name:** KODAK Rapid Access Dental Developer

**Product code:** 5010459

**Supplier:** Carestream Health UK Limited, Hemel One, Boundary Way, Hemel Hempstead, HP2 7YU

IN EMERGENCY, telephone: 8706006266.

For other product information, telephone: +44 (0)870 6000245.

**Synonyms:** 5044

**Product Use:** photographic processing chemical For industrial use only.

### 2. Composition/information on ingredients

Weight %	Component	CAS-No.	EINECS-No./ ELINCS No.	Classification
80 - 85	Water	7732-18-5	231-791-2	**
5 - 10	Potassium sulphite	10117-38-1	233-321-1	**
5 - 10	Hydroquinone	123-31-9	204-617-8	Xn, N; Carc.Cat.3; Mut.Cat.3; R22, R40, R41, R43, R50, R68*
0.1 - 1	Sodium tetraborate	1330-43-4	215-540-4	**
0.1 - 1	Pentetic acid, pentasodium salt	140-01-2	205-391-3	Xi, N; R36, R51/53**

\* Symbol and R Phrase according to EC Annex I

\*\* Substance not listed in EC Annex I

### 3. Hazards identification

**Product:** Harmful. Irritating to eyes. Limited evidence of a carcinogenic effect. Possible risk of irreversible effects. May cause sensitization by skin contact.

### 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.

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### 5. Fire-fighting measures

**Extinguishing Media:** The product is not flammable. Use appropriate agent for adjacent fire.

**Special Fire-Fighting Procedures:** No special fire fighting procedure is necessary.

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

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

### 6. Accidental release measures

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

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

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

### 7. Handling and storage

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

**Prevention of Fire and Explosion:** No special precautionary measures should be needed under anticipated conditions of use.

**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
Hydroquinone	UK EH40 WELs	time weighted average	0.5 mg/m <sup>3</sup>
Sodium tetraborate	UK EH40 WELs	time weighted average	1 mg/m <sup>3</sup>
Sulphur dioxide		Reference:	
		<i>Remarks. The OES for this substance has been withdrawn by the Health and Safety Commission from April 2003. You should aim to control exposures of employees to sulphur dioxide to as low as is reasonably practicable, and if possible to below 1ppm for both short-term (15-minute reference period) and long-term (8-hour TWA) exposure</i>	
Hydroquinone	ELV (IE)	time weighted average	2 mg/m <sup>3</sup>
	ELV (IE)	Short term exposure limit	4 mg/m <sup>3</sup>
Sodium tetraborate	ELV (IE)	time weighted average	1 mg/m <sup>3</sup>

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Sulphur dioxide	ELV (IE) ELV (IE)	time weighted average Short term exposure limit	5 mg/m <sup>3</sup> 13 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 personal respiratory protection designed to protect against both aerosols and acid gas.

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

**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

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

### 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** clear pale yellow

**Odour:** slight, alcohol

**Specific gravity:** 1.12

**Vapour pressure:** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

**Volatile fraction by weight:** 80 - 85 %

**Boiling point/range:** > 100.0 °C (> 212.0 °F)

**Water solubility:** complete

**pH:** 12.2

**Flash point:** does not flash

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### 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**Incompatibility:** Acids. Contact with strong acids may liberate sulphur dioxide.

**Hazardous decomposition products:** Exposure to temperatures in excess of 180°C may liberate hazardous decomposition products including oxides of carbon, nitrogen and sulphur.

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

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### 11. Toxicological information

#### Effects of Exposure

##### General advice:

Contains: Hydroquinone. Hydroquinone has been classified as a Category 3 mutagen and carcinogen by the European Union based on testing of rats and mice given hydroquinone by stomach tube or at high dietary levels. The International Agency for Research on Cancer (IARC) under ranking for cancer potential has classified hydroquinone in Group 3, i.e. "not classifiable" as a carcinogen. In the European Union a Category 3 mutagen attracts the risk phrase R68 "Possible risk of irreversible effects" at concentrations above 1%, and a Category 3 carcinogen attracts the risk phrase R40 "Limited evidence of a carcinogenic effect" at concentrations above 1%. Exposure to products containing such substances should be controlled to below established control limits and special care should be taken with pregnant or breast-feeding women to ensure appropriate controls are in place to control the risk.

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

**Eyes:** Irritating to eyes.

**Skin:** May cause sensitization by skin contact.

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

#### Data for PCD 6400 (a very similar material):

##### Acute Toxicity Data:

- Oral LD50 (rat): > 2,000 mg/kg
- Skin irritation: none
- Skin Sensitization: negative

### 12. Ecological information

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

#### Potential Toxicity:

Fish LC50:	1 - 10 mg/l
Daphnid EC50:	< 1 mg/l
Algal IC50:	10 - 100 mg/l
Waste treatment organisms EC50:	> 100 mg/l
Organics Readily Degradable:	Readily biodegradable
Potential Bioaccumulation:	log Pow < 1
COD (approximate):	154 g/l
BOD (approximate):	93 g/l

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### 13. Disposal considerations

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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 01 Water based developer and activator. 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.

Waste product packaging contaminated by residues of hazardous contents should be consigned for disposal as hazardous waste. In this case, the European Waste Catalogue Code is 15 01 10 packaging containing residues of or contaminated by dangerous substances.

### 14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

<b>ADR:</b>	UN Number:	UN1814
	Proper shipping name:	POTASSIUM HYDROXIDE SOLUTION
	Class:	8
	Packaging group:	III
<b>IATA:</b>	UN Number:	UN1814
	Proper shipping name:	Potassium hydroxide solution
	Class:	8
	Packaging group:	III
<b>IMDG:</b>	UN Number:	UN1814
	Proper shipping name:	POTASSIUM HYDROXIDE SOLUTION
	Class:	8
	Packaging group:	III
<b>RID:</b>	UN Number:	UN1814
	Proper shipping name:	POTASSIUM HYDROXIDE SOLUTION
	Class:	8
	Packaging group:	III

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For more transportation information, go to: [www.carestreamhealth.com/go/ship2](http://www.carestreamhealth.com/go/ship2).

### 15. Regulatory information

#### 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:** Hydroquinone 5.95 %

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pH: > 12



**Symbol/Indication of Danger:** Xn: Harmful

**Risk Phrases:**  
R36: Irritating to eyes.  
R40: Limited evidence of a carcinogenic effect.  
R68: Possible risk of irreversible effects.  
R43: May cause sensitization by skin contact.

**Safety Phrases:** S36/37: Wear suitable protective clothing and gloves.

### 16. Other information

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

Xn: Harmful  
Xi: Irritant  
N: Dangerous for the environment

R22: Harmful if swallowed.  
R36: Irritating to eyes.  
R40: Limited evidence of a carcinogenic effect.  
R41: Risk of serious damage to eyes.  
R43: May cause sensitization by skin contact.  
R50: Very toxic to aquatic organisms.  
R68: Possible risk of irreversible effects.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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