

# Material Safety Data Sheet

Revision Date: 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 1/6

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

**Product name:** KODAK READYMATIC Dental CHEMPACK, Developer

**Product code:** 4980546, Developer

**Supplier:** Carestream Health Australia Pty Ltd, 181 Victoria Parade, Collingwood, Victoria, 3065

For Chemical Emergency Information, in Australia call 1800 033111 (24 hour service Australia-wide); in New Zealand call 0800 734 607 (24 hour service); in Asia call +86 21 63500836

For Other Information, call Australia 1300 651 786 or New Zealand 0800 444 048

**Synonyms:** PCD 6135

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

## 2. Hazards identification

**STATEMENT OF HAZARDOUS NATURE:** Hazardous according to criteria of Australian Safety and Compensation Council

**Harmful.** Limited evidence of a carcinogenic effect. Possible risk of irreversible effects. May cause sensitization by skin contact.

Contains no scheduled poisons

## 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
1 - 5	Sodium sulphite (7757-83-7)
1 - 5	Hydroquinone (123-31-9)
0.1 - 1	Sodium bromide (7647-15-6)
0.1 - <1	4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone (13047-13-7)

## 4. First aid measures

**Inhalation:** If inhaled, remove to fresh air. Get medical attention.

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. If easy to do, remove contact lens, if worn.

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

**Ingestion:** Do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

# Material Safety Data Sheet

Revision Date 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 2/60

## 5. Fire-fighting measures

**Hazchem Code:** 3Z

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

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

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

## 6. Accidental release measures

Contaminated absorbent should be disposed of in accordance with local regulations. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

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

**Prevention of Fire and Explosion:** No special technical protective measures required.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

## 8. Exposure controls/personal protection

### Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Hydroquinone	AU OEL	Time Weighted Average (TWA):	2 mg/m <sup>3</sup>
4-hydroxymethyl-4-methyl-1-phenyl-3 -pyrazolidinone	EK HPG	Time Weighted Average (TWA):	0.2 mg/m <sup>3</sup>
Sulphur dioxide	AU OEL	Time Weighted Average (TWA): Short Term Exposure Limit (STEL):	2 ppm 5 ppm

**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**Respiratory protection:** None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator

# Material Safety Data Sheet

Revision Date 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 3/60

type: full-face organic vapour/N95. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas. See Stability and Reactivity Section. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

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

**Skin and body protection:** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**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:** 1.08

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

**Vapour density:** 0.6

**Volatile fraction by weight:** 85 - 90 %

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

**Water solubility:** complete

**pH:** 10.1

**Flash point:** does not flash

**Flammability Limits:** Not specified

## 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**Incompatibility:** Acids. Contact with strong acids liberates sulphur dioxide.

**Hazardous decomposition products:** Sulphur oxides.

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

## 11. Toxicological information

# Material Safety Data Sheet

Revision Date 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 4/60

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## Effects of Exposure

**General advice:** This mixture contains hydroquinone which is classified as a dermal sensitizer in some jurisdictions. A very similar mixture was negative in dermal sensitization studies with and without prior sensitization to hydroquinone. Based on the results of these studies, this mixture is not expected to present a dermal sensitization hazard to humans. Health hazard evaluation based on a structurally similar material. The following information is based, in part, on an analogy to: PCD 6400 (a very similar material). The toxicological properties of this material have not been investigated.

Contains: Hydroquinone. Possible risk of irreversible effects. Limited evidence of a carcinogenic effect.

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

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

**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:

Toxicity to fish: < 1 mg/l

Toxicity to daphnia: < 1 mg/l

**Persistence and degradability:** Expected to biodegrade.

Toxic to aquatic life.

## 13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated for all modes of transportation.

# Material Safety Data Sheet

Revision Date 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 5/60

For more transportation information, go to: <http://ship.carestreamhealth.com>.

## 15. Regulatory information

### Notification status

Regulatory List	Notification status	Other information	Not listed
EINECS	y (positive listing)	-	
TSCA	y (positive listing)	On TSCA Inventory	
AICS	y (positive listing)	-	
DSL	y (positive listing)	All components of this product are on the Canadian DSL list.	
ENCS (JP)	y (positive listing)	-	
KECI (KR)	y (positive listing)	-	
PICCS (PH)	y (positive listing)	-	
INV (CN)	y (positive listing)	-	

A N (Negative listing) indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Carestream Health.

**Poisons Schedule:** Not specified

**Australian Safety and Compensation Council:** none

### Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):	Hydroquinone: Group A3 (Confirmed animal carcinogen with unknown relevance to humans.)
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## 16. Other information

# Material Safety Data Sheet

Revision Date 05.11.2008  
Print Date: 05.11.2010  
Z17000000596/Version: 1.3  
Page: 6/60

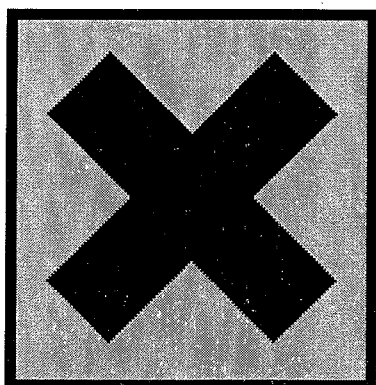
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The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture. The actual label information will depend upon the intended use of the product. Australian Safety and Compensation Council labeling appears for commercial/industrial use.

## Australian Safety and Compensation Council Labeling:

**Contains:** Hydroquinone 2.47%

**pH:** 9-12



**Symbol/Indication of Danger:**

Xn: Harmful

**Risk Phrases:**

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.

## National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:

**CONTAINS NO SCHEDULED POISONS**

**First aid:** No first aid instructions are recommended for labelling purposes.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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