HENRY SCHEIN®
DENTAL

GENERAL BUSINESS: 0800 808 855
FAX: 0508 808 555
www.henryschein.co.nz

Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the Safety Data Sheet (SDS) attached.

Product Name:	READYMATIC Developer and Replenisher
Manufacturer:	Carestream Health NZ
SDS Expiry:	25 May 2023
Supplier Details:	Henry Schein New Zealand 23 William Pickering Drive, Albany PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	Non Hazardous
HSNO Group Standard:	Non Hazardous

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared on 22 February 2019

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product code: 4980546DEV

Product name: READYMATIC Developer and Replenisher

Pure substance/mixture Mixture
Contains Hydroquinone

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

Identified uses: Photographic chemical.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier: Carestream Health New Zealand Ltd, Guthrey Pacific House, Level 1, 93 Manchester Street, Christchurch, New Zealand

For further information, please contact:

E-mail Address: For environment, health and safety information, email: EMEAEHS@carestream.com

1.4. Emergency telephone number

CHEMTREC International 1-703-527-3887
CHEMTREC UK +(44)-870-8200418

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

HSNO Classification 6.4A, 6.5B, 6.6B, 6.7B, 9.1B

Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 2

2.2. Label elements


Warning

Hazard Statements
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H341 - Suspected of causing genetic defects
H351 - Suspected of causing cancer
H401 - Toxic to aquatic life

Precautionary Statements
P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards
Contact with strong acids liberates sulphur dioxide
May cause irritation of respiratory tract

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures

Hazardous components

Chemical Name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydroquinone	Present	123-31-9	1-3	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic Acute 1 (H400)
Sodium borate	Present	1330-43-4	<1	Repr. 1B (H360FD)

Non-hazardous ingredients

Chemical Name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium carbonate	Present	584-08-7	1-3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT Single Exp. 3 (H335)
Sodium carbonate	Present	497-19-8	1-3	Eye Irrit. 2 (H319)

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Ingestion Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. Immediate medical attention is required.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms Causes serious eye irritation. May cause an allergic skin reaction. Irritation. Rashes. Hives.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which shall not be used for safety reasons
None

5.2. Special hazards arising from the substance or mixture

Special Hazard
Hazardous decomposition products due to incomplete combustion.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear

Hazchem Code
No information available

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. For personal protection see section 8.

See Section 12 for additional Ecological Information.

6.2. Environmental precautions

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Dam up. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapours or mists. Ensure adequate ventilation. Wash thoroughly after handling. Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

7.3. Specific end use(s) .

Specific use(s) Photographic chemical.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits

Chemical Name	Australia	ACGIH TLV	The United Kingdom	Germany
Hydroquinone	TWA 2 mg/m³	TWA: 1 mg/m³	STEL 1.5 mg/m³ TWA 0.5 mg/m³	
Sodium borate	TWA 1 mg/m³	STEL 6 mg/m³ TWA: 2 mg/m³	STEL 3 mg/m³ TWA 1 mg/m³	

Biological standards This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

No information available

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields.

Hand Protection Protective gloves.

Skin and body protection Long sleeved clothing. Protective gloves. Skin contact should be prevented through use of suitable protective clothing, gloves, and footwear, selected with regard of use conditions and exposure potential.

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

Other Protective Equipment Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing.

Environmental Exposure Controls Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1

Physical state	Liquid		
Appearance	aqueous solution	**Odour**	Odourless
Colour	colourless	**Odour Threshold**	No information available

Property	Values	Remarks/ - Method
pH	10.1	No information available
Melting point/range:		No information available
Freezing Point:		No information available
Boiling point/boiling range	> 100 °C	No information available
Flash Point		No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available

Vapour pressure	24 mbar @ 20 °C	No information available
Vapour density	0.6	No information available
Relative density	1.08	No information available
Water Solubility	completely soluble	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity:		No information available
Explosive properties	No information available	
Oxidising Properties	No information available	

9.2
Softening point No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Contact with strong acids liberates sulphur dioxide

10.4. Conditions to avoid

Do not freeze.

10.5

Oxidizing agents. Strong acids.

10.6

Carbon oxides, Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Product Information

Inhalation May cause irritation of respiratory tract. Expected to be a low hazard for recommended handling.

Eye contact Causes serious eye irritation.

Skin contact May cause skin irritation and/or dermatitis.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Not expected to be harmful by ingestion.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydroquinone	375 mg/kg (Rat) Oral LD50 Rat 375 mg/kg (Source: ECHA)	> 4800 mg/kg (Rat)	

Potassium carbonate	> 2000 mg/kg (Rat) Oral LD50 Rat 2000 mg/kg (Source: ECHA)	>2000 mg/kg (Rabbit)	
Sodium carbonate	4090 mg/kg (Rat) Oral LD50 Rat 4090 mg/kg (Source: NLM_CIP)		2300 mg/m³ (Rat) 2 h Inhalation LC50 Rat 2300 mg/m³ 2 h (dust, Source: NLM_CIP)
Sodium borate	2660 mg/kg (Rat) Oral LD50 Rat 2660 mg/kg (Source: JAPAN_GHS)	2000 mg/kg (Rabbit) Dermal LD50 Rabbit >2000 mg/kg (Source: IUCLID)	2 mg/m³ (Rat) 4 h Inhalation LC50 Rat >2 mg/m³ 4 h (Source: HSDB)

Chronic toxicity

Carcinogenicity Contains a known or suspected carcinogen

Chemical Name	European Union	The United Kingdom
Hydroquinone	Carc. 2	

Sensitisation 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. May cause sensitisation by skin contact.

Reproductive toxicity Contains ingredients that are suspected reproductive hazards. However, based on available data the product should not be classified for reproductive effects.

Mutagenic effects Contains a known or suspected mutagen.

Target Organ Effects Skin. Eyes. Respiratory system.

Symptoms Irritant. rash Allergic skin reactions including rash, dermatitis, irritation, and itching. Severe eye irritation or burning.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects Toxic to aquatic organisms

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Hydroquinone	0.335: 72 h Pseudokirchneriella subcapitata mg/L EC50 13.5: 120 h Desmodesmus subspicatus mg/L EC50	0.1 - 0.18: 96 h Pimephales promelas mg/L LC50 static 0.044: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.044: 96 h Pimephales promelas mg/L LC50 flow-through 0.17: 96 h Brachydanio rerio mg/L LC50	0.29: 48 h Daphnia magna mg/L EC50
Potassium carbonate			440 - 880: <24 h Daphnia magna mg/L LC50
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	265: 48 h Daphnia magna mg/L EC50
Sodium borate	2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 158: 96 h Desmodesmus subspicatus mg/L EC50	340: 96 h Limanda limanda mg/L LC50	1085 - 1402: 48 h Daphnia magna mg/L LC50

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

Chemical Name	log Pow
Hydroquinone	0.5

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products Dispose of in accordance with local regulations. Should not be released into the environment.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.
Other information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used

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 have 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.

ADG Not classified as a dangerous goods.

Component	Hazchem Code
Hydroquinone 123-31-9 (1-3)	2Z (solid, UN2662)

ICAO/IATA Not regulated

IMDG/IMO Not regulated

For transportation information, go to: http://ship.carestream.com

15. REGULATORY INFORMATION

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

HSNO Classification 6.4A, 6.5B, 6.6B, 6.7B, 9.1B

ERMA Register Approval Number HSR002639 - Photographic Chemicals (Toxic [6.7]) Group Standard 2017

International Inventories

AICS	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
NZIoC	Complies
PICCS	Complies

TSCA	Complies

Legend
AICS - Australian Inventory of Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals
PICCS - Philippines Inventory of Chemicals and Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

16. OTHER INFORMATION

Issuing Date	30 April 2014
Revision Date	25 May 2018
Revision Note	(M)SDS sections updated

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

XTable Placeholder