HENRY SCHEIN®
DENTAL

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Material 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:	GBX Developer and Replenisher
Manufacturer:	Carestream Health, Inc.
SDS Expiry:	10 September 2024
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:	6/9
HSNO Group Standard:	Dental Products Toxic 6.7 Group Standard 2017 HSR002560
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared on 18 August 2020

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

Revision Date 10 September 2019 Version 1.04

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

1.1. Product identifier

Product code: 4037206

Product name: GBX Developer and Replenisher

Contains Hydroquinone

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

Identified uses: Photographic chemical. Restricted to professional users.

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer
HENRY SCHEIN NEW ZEALAND
LTD23 William Pickering Drive,
RosedaleAuckland, 632
New Zealand

Supplier:
CARESTREAM HEALTH, INC.
150 Verona Street
Rochester, NY, USA 14608

For further information, please contact:

For questions contact HENRY SCHEIN HALAS: +64 9 414 0040

1.4. Emergency telephone number

CHEMTREC New Zealand: +(64) 9 801 0034
CHEMTREC International: +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classified as a dangerous good according to NZS 5433:1999, UN, IMDG, or IATA

HSNO Classification 6.1E (Ingestion), 6.3A, 6.4A, 6.5B, 6.6B, 6.7B, 9.1A

Acute toxicity - Oral	Category 5
Serious eye damage/eye irritation	Category 1
Skin sensitisation	Category 1B
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1

2.2. Label elements

Danger

Hazard Statements
H303 - May be harmful if swallowed
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H341 - Suspected of causing genetic defects
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life

Precautionary Statements
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P363 - Wash contaminated clothing before reuse
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P273 - Avoid release to the environment
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable

3.2 Mixtures
Non-hazardous ingredients

Chemical Name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	Present	7732-18-5	60-70	No hazards have been classified
Potassium sulfite	Present	10117-38-1	5-10	
Diethylene glycol	Present	111-46-6	5-10	Acute Tox. 4 (H302), STOT RE 2 (H373)
Hydroquinone	Present	123-31-9	5-10	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)

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. Get medical attention if irritation develops and persists.

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

Protection of first-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves

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

Main symptoms None known.

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
Dry chemical, CO_2, water spray or regular foam. Move containers from fire area if you can do it without risk Dyke fire-control water for later disposal Water spray, fog or regular foam

Extinguishing media which shall not be used for safety reasons
No information available

5.2. Special hazards arising from the substance or mixture

Special Hazard
Thermal decomposition can lead to release of toxic and corrosive gases/vapours

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

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection see section 8.

Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Dyke to collect large liquid spills.

Contain spillage, and then collect 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). Clean contaminated surface thoroughly.

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. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory 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
Diethylene glycol	TWA 23 ppm TWA 100 mg/m³	-	STEL 69 ppm STEL 303 mg/m³ TWA 23 ppm TWA 101 mg/m³	AGW 10 ppm AGW 44 mg/m³
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
No information available

Engineering Measures Ensure adequate ventilation. 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 Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

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 None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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	Liquid, light yellow	**Odour**	Odourless
Colour	light yellow	**Odour Threshold**	No information available

Property	**Values**	**Remarks/ - Method**
pH	10.2	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	> 93.3 °C > 201.200 °F	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	1.230	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

Heat, flames and sparks.

10.5

Strong oxidising agents. Acids.

10.6

Carbon oxides, Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Product Information

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

Eye contact May cause slight irritation.

Skin contact Expected to be a low hazard for recommended handling. May cause skin irritation and/or dermatitis.

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (Rat)		
Potassium sulfite	>3200 mg/kg (rat)		
Diethylene glycol	12565 mg/kg (Rat)	11890 mg/kg (Rabbit)	4600 mg/m³ (Rat) 4 h Inhalation LC50 Rat >4600 mg/m³ 4 h (aerosol, Source: NICNAS)
Hydroquinone	375 mg/kg (Rat) Oral LD50 Rat 375 mg/kg (Source: ECHA)	> 4800 mg/kg (Rat)	
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 no ingredients above reportable quantities listed as a carcinogen

Chemical Name	European Union	The United Kingdom
Hydroquinone	Carc. 2	

Corrosivity Risk of serious damage to eyes

Sensitisation 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. Central nervous system. Kidney. Liver.

Symptoms Causes severe eye damage Allergic skin reactions including rash, dermatitis, irritation, and itching.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects The environmental impact of this product has not been fully investigated Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Potassium sulfite		220 - 460: 96 h Leuciscus idus mg/L LC50 static	
Diethylene glycol		75200: 96 h Pimephales promelas mg/L LC50 flow-through	84000: 48 h Daphnia magna mg/L EC50
Hydroquinone	0.335: 72 h Pseudokirchneriella subcapitata mg/L EC50 13.5: 120 h Desmodesmus subspicatus mg/L EC50	0.044: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.044: 96 h Pimephales promelas mg/L LC50 flow-through 0.1 - 0.18: 96 h Pimephales promelas mg/L LC50 static 0.17: 96 h Brachydanio rerio mg/L LC50	0.29: 48 h Daphnia magna mg/L EC50
Sodium borate	158: 96 h Desmodesmus subspicatus mg/L EC50 2.6 - 21.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	340: 96 h Limanda limanda mg/L LC50	1085 - 1402: 48 h Daphnia magna mg/L LC50

12.2 Persistence and degradability

No data is available on the product itself. Expected to be readily biodegradable.

12.3 Bioaccumulative potential

Chemical Name	log Pow
Diethylene glycol	-1.98
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

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

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.

The "environmentally hazardous substances" (UN3082 and UN3077) shipped in Limited Quantities (net quantity of less than 5 L or 5 kg) are deemed "Not Restricted" (not regulated) for DGR.

ADG Not classified as a dangerous goods.

ICAO/IATA Not regulated

Special Provisions A97, A158, A197

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

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

HSNO Classification 6.1E (Ingestion), 6.3A, 6.4A, 6.5B, 6.6B, 6.7B, 9.1A

International Inventories

"Does not comply" indicates a component is either not on the public inventory or is subject to exemption requirements. If additional information is needed contact distributor.

AICS Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
ENCS Complies

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 5 February 2014

Revision Date 10 September 2019

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.

End of Safety Data Sheet