

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 Fixer and Replenisher

Manufacturer: Carestream

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](http://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

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020  
HSR002558

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

Date Prepared: This coversheet was prepared - May 2021

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

according to NOHSC:2011(2003)

Revision Date 10 September 2019

Version 4.02

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

### 1.1. Product identifier

**Product code:** 4037214  
**Product name:** GBX Fixer and Replenisher

**Pure substance/mixture** Mixture  
Contains Sodium borate

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

**Identified uses:** Restricted to professional users. Photographic chemical.  
**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

|   |   |
|---|---|
| <b>Importer</b><br>HENRY SCHEIN HALAS<br>Level 6, Building 3<br>189 O'Riordon Street<br>Mascot, New South Wales 2020<br>Australia | <b>Supplier</b><br>CARESTREAM HEALTH, INC.<br>150 Verona Street<br>Rochester, NY, USA 14608 |
|---|---|

**For further information, please contact**  
For questions contact HENRY SCHEIN HALAS: +61 2 96976376

**1.4. Emergency telephone number**  
CHEMTREC Australia: +(61) 2 90372994  
CHEMTREC International: 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

|                                   |             |
|-----------------------------------|-------------|
| Serious eye damage/eye irritation | Category 2A |
|-----------------------------------|-------------|

### 2.2. Label elements



#### Warning

**Hazard Statements**  
H319 - Causes serious eye irritation

**Precautionary Statements**  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P337 + P313 - If eye irritation persists: Get medical advice/attention

**2.3. Other hazards****Environmental properties** None known.**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable

**3.2 Mixtures**

Hazardous components

| Chemical Name        | CAS-No     | Weight percent |
|----------------------|------------|----------------|
| Ammonium thiosulfate | 7783-18-8  | 30-40          |
| Aluminum sulfate     | 10043-01-3 | 1-2            |

Non-hazardous ingredients

| Chemical Name    | CAS-No    | Weight percent |
|------------------|-----------|----------------|
| Water            | 7732-18-5 | 50-60          |
| Sodium bisulfite | 7631-90-5 | 5-10           |
| Sodium borate    | 1330-43-4 | 1-2            |

**4. FIRST AID MEASURES****4.1. Description of first aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Eye contact</b>    | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation persists.   |
| <b>Skin contact</b>   | Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                      |
| <b>Ingestion</b>      | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.  |
| <b>Inhalation</b>     | 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** 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**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which shall not be used for safety reasons**

None known based on information supplied.

**5.2. Special hazards arising from the substance or mixture****Special Hazard**

Dried product residue can act as a reducing agent. Reacts violently with oxidizing materials. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing).

**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****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 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). 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.

**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** Components with workplace control parameters

| Chemical Name    | Australia               | ACGIH TLV  | The United Kingdom                                   | Germany |
|------------------|-------------------------|--|--|---------|
| Sodium bisulfite | TWA 5 mg/m <sup>3</sup> | TWA: 5 mg/m <sup>3</sup>                             | STEL 15 mg/m <sup>3</sup><br>TWA 5 mg/m <sup>3</sup> |         |
| Sodium borate    | TWA 1 mg/m <sup>3</sup> | STEL 6 mg/m <sup>3</sup><br>TWA: 2 mg/m <sup>3</sup> | STEL 3 mg/m <sup>3</sup><br>TWA 1 mg/m <sup>3</sup>  |         |

**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.

|  |   |
|--|---|
| <b>Hand Protection</b>                 | 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. |
| <b>Skin and body protection</b>        | 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.  |
| <b>Respiratory protection</b>          | None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  |
| <b>Other Protective Equipment</b>      | Ensure that eyewash stations and safety showers are close to the workstation location.  |
| <b>Hygiene measures</b>                | 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.  |
| <b>Environmental Exposure Controls</b> | No information available.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                          |                          |                          |
|---|--------------------------|--------------------------|--------------------------|
| <b>9.1</b>                                    |                          |                          |                          |
| <b>Physical state</b>                         | Liquid                   | <b>Odour</b>             | Ammonia                  |
| <b>Colour</b>                                 | colourless               | <b>Odour Threshold</b>   | No information available |
| <b>Property</b>                               | <b>Values</b>            | <b>Remarks/ - Method</b> |                          |
| <b>pH</b>                                     | 4.9                      | No information available |                          |
| <b>Melting point/range:</b>                   |                          | No information available |                          |
| <b>Freezing Point:</b>                        |                          | No information available |                          |
| <b>Boiling point/boiling range</b>            | > 100 °C / 212 °F        |                          |                          |
| <b>Flash Point</b>                            |                          | No information available |                          |
| <b>Evaporation rate</b>                       |                          | No information available |                          |
| <b>Flammability (solid, gas)</b>              |                          | No information available |                          |
| <b>Flammability Limits in Air</b>             |                          | No information available |                          |
| <b>Vapour pressure</b>                        | 24 mbar @ 20 °C          |                          |                          |
| <b>Vapour density</b>                         | 0.6                      |                          |                          |
| <b>Relative density</b>                       | 1.30                     | No information available |                          |
| <b>Water Solubility</b>                       | completely soluble       |                          |                          |
| <b>Solubility in other solvents</b>           |                          | No information available |                          |
| <b>Partition coefficient: n-octanol/water</b> |                          | No information available |                          |
| <b>Autoignition temperature</b>               |                          | No information available |                          |
| <b>Decomposition temperature</b>              |                          | No information available |                          |
| <b>Viscosity:</b>                             |                          | No information available |                          |
| <b>Explosive properties</b>                   | No information available |                          |                          |
| <b>Oxidising Properties</b>                   | No information available |                          |                          |
| <b>9.2</b>                                    |                          |                          |                          |
| <b>Softening point</b>                        | No information available |                          |                          |
| <b>Molecular Weight</b>                       | No information available |                          |                          |
| <b>Density</b>                                | No information available |                          |                          |
| <b>Bulk density:</b>                          | 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

Hazardous polymerisation does not occur.

Contact with strong acids liberates sulphur dioxide. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas). Contact with bases liberates flammable material and ammonia.

#### **10.4. Conditions to avoid**

Do not freeze.

#### **10.5**

Acids. Strong bases. Sodium hypochlorite. Halogenated compounds. Oxidizing agents. Contact with strong acids liberates sulphur dioxide.

#### **10.6**

Ammonia. Chloramine. Sulphur oxides.

## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.   |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Skin contact</b> | Repeated exposure may cause skin dryness or cracking.  |
| <b>Ingestion</b>    | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea. |

#### **Acute toxicity - Component Information**

| <b>Chemical Name</b> | <b>Oral LD50</b>  | <b>Dermal LD50</b>  | <b>Inhalation LC50</b>  |
|----------------------|---|---|---|
| Water                | 90,000 mg/kg ( Rat )  |   |   |
| Ammonium thiosulfate | > 2000 mg/kg ( Rat )  |   |   |
| Sodium bisulfite     | 1420 mg/kg ( Rat )  |   |   |
| Aluminum sulfate     | > 5000 mg/kg ( Rat )  |   |   |
| Sodium borate        | 2660 mg/kg ( Rat )<br>Oral LD50 Rat 2660 mg/kg<br>(Source: JAPAN_GHS) | 2000 mg/kg ( Rabbit )<br>Dermal LD50 Rabbit >2000 mg/kg<br>(Source: IUCLID) | 2 mg/m <sup>3</sup> ( Rat ) 4 h<br>Inhalation LC50 Rat >2 mg/m <sup>3</sup> 4 h<br>(Source: HSDB) |

#### **Chronic toxicity Carcinogenicity**

Contains no ingredients above reportable quantities listed as a carcinogen.

#### **Sensitisation**

May cause sensitisation by inhalation.

#### **Reproductive toxicity**

Contains a known or suspected reproductive toxin. However, based on available data the product should not be classified for reproductive effects.

#### **Target Organ Effects**

Eyes. Skin. Respiratory system.

#### **Symptoms**

Severe eye irritation or burning. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

## **12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Ecotoxicity effects** The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity** 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Product Information**

No information available.

**Component Information**

| Chemical Name    | Toxicity to algae  | Toxicity to fish   | Toxicity to daphnia and other aquatic invertebrates |
|------------------|--|--|---|
| Sodium bisulfite |  | 240: 96 h <i>Gambusia affinis</i> mg/L<br>LC50 static  | 119: 48 h <i>Daphnia magna</i> mg/L<br>EC50         |
| Aluminum sulfate |  | 100: 96 h <i>Carassius auratus</i> mg/L<br>LC50 37: 96 h <i>Gambusia affinis</i><br>mg/L LC50 static | 136: 15 min <i>Daphnia magna</i> mg/L<br>EC50       |
| Sodium borate    | 158: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 2.6 - 21.8:<br>96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static | 340: 96 h <i>Limanda limanda</i> mg/L<br>LC50  | 1085 - 1402: 48 h <i>Daphnia magna</i> mg/L LC50    |

**Chronic aquatic toxicity****Product Information**

No information available.

**Component Information**

No information available.

**12.2 Persistence and degradability**

Expected to be readily biodegradable.

**12.3 Bioaccumulative potential**

**Bioaccumulative potential** No information available.

**Partition coefficient: n-octanol/water** No information available

**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** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not re-use empty containers. Dispose of in accordance with local regulations.  
**Advice on safe handling** See Section 8 for more detail

## 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.

**ICAO/IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

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

#### International Inventories

|                      |                 |
|----------------------|-----------------|
| <b>AICS</b>          | Does not comply |
| <b>EINECS/ELINCS</b> | Does not comply |
| <b>DSL/NDSL</b>      | Complies        |
| <b>ENCS</b>          | Complies        |
| <b>IECSC</b>         | Complies        |
| <b>KECL</b>          | Complies        |
| <b>PICCS</b>         | Complies        |
| <b>NZIoC</b>         | Complies        |
| <b>TSCA</b>          | Does not comply |

#### Legend

**AICS** - Australian Inventory of Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

#### National regulatory information

##### Australia

## 16. OTHER INFORMATION

|                      |                         |
|----------------------|-------------------------|
| <b>Issuing Date</b>  | 6 February 2014         |
| <b>Revision Date</b> | 10 September 2019       |
| <b>Revision Note</b> | (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.

**End of Safety Data Sheet**