

**SECTION 1: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL****Product Identifier****Product Name:** Blue Science Technologies Hand Sanitiser**Product Form:** Mixture**Synonyms:** Hypochlorous Acid Solution**Intended Use of the Product**

All-Purpose Sanitiser

**Manufacturer's Details****Name:** Blue Science Technologies Pty Ltd**Address:** Unit 4, 127-129 Olympic Circuit, Southport QLD 4215**Phone:** +61 1800 258 223**E-mail:** info@bluesciencetech.com**Emergency Phone Number**

+61 1800 258 223

**SECTION 2: HAZARDOUS IDENTIFICATION****Classification of the hazardous chemical**

Classification (GHS-AU) Not classified

**Label Elements** GHS-AU Labelling No labelling applicable**Non-GHS Hazardous** Not available**Other Hazardous** Exposure may aggravate pre-existing eye, skin, or respiratory conditions.**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

Name	CAS#	w/w%	GHS-AU Classification
Water	7732-18-5	99.98	Not classified
Hypochlorous acid	7790-92-3	0.02	Not Classified

**SECTION 4: FIRST AID MEASURES****Description of First-aid Measures****General:** For advice, contact a Poison Information Centre (Australia 13 11 26) or a doctor.**Skin Contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.**Eye Contact:** If in eyes, wash out immediately with water.**Ingestion:** If swallowed, do NOT induce vomiting.**Symptoms Caused by exposure****General:** Not expected to present a significant hazard under anticipated conditions of normal use.**Skin Contact:** Prolonged exposure may cause skin irritation.**Eye Contact:** May cause slight irritation to eyes.**Ingestion:** Ingestion may cause adverse effects.**Chronic Symptoms:** None expected under normal conditions of use.**Medical Attention and Special Treatment**

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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### SECTION 5: FIRE FIGHTING MEASURES

#### Extinguish Media

**Suitable Extinguish Media:** Water spray, dry chemical, foam, carbon dioxide.

#### Special Hazards Arising from the Chemical

**Fire Hazard:** Not flammable

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Contact with metals may evolve flammable hydrogen gas. May emit chlorine gas when mixed with acids or ammonia.

#### Special Protective Equipment and Precautions for Fire Fighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Irritating or toxic vapours.

**HAZCHEM Emergency Action Code (Australia):** Not applicable

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapour, mist, or spray.

**Environmental Precautions:** Prevent entry to sewers and public waters

#### Methods and materials for containment and cleaning up:

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb spillage to prevent material damage.

### SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Avoid prolonged contact with eyes, skin, and clothing. Avoid breathing vapours, mist, and spray. Handle in accordance with good industrial hygiene and safety procedure.

**Conditions for safe storage, including incompatibility:** Keep container closed when not in use. Store in a dry, cool place. Keep away from direct sunlight, extremely high or low temperatures and incompatible materials such as strong acids, strong bases, strong oxidisers, and Ammonia.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters:

Chemical	CAS #	ACGIH TWA	OSHA TWA	WEEL
Water	7732-18-5	Not listed	Not listed	Not listed
Hypochlorous acid	7790-92-3	Not listed	Not listed	Not listed

#### Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal protective equipment:** Not required for normal condition of use.

**Materials for Protective Clothing:** Wear suitable protective clothing.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

##### Information on Basic Physical and Chemical Properties:

Physical State	:	Liquid
Appearance	:	Clear
Odour	:	Slight chlorine odour
Odour threshold	:	Not available
pH	:	6.2 ± 0.5
freezing point	:	0°C
Boiling point	:	100°C
Relative density	:	1.0088
Solubility in water	:	Complete

#### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Contact with metals may evolve flammable hydrogen gas. May emit chlorine gas when mixed with acids or ammonia.

**Chemical stability:** Stable under recommended handling and storage conditions (see section 7).

**Conditions to avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

**Incompatible materials and possible hazardous reactions:**

Strong acids, strong bases, strong oxidisers. Ammonia

**Hazardous decomposition products:** None known.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### Information on Toxicological Effects:

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitisation:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### SECTION 12: ECOLOGICAL INFORMATION

##### Toxicity:

**Acute Aquatic Toxicity:** Not classified

**Ecology – General:** Not classified

**Persistence and degradability:** Not established

**Bioaccumulative potential:** Not established

**Mobility in soil:** Not available

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#### SECTION 13: DISPOSAL CONSIDERATIONS

**Safe handling and disposal methods:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Disposal of any contaminated packaging:** Container may remain hazardous when empty. Continue to observe all precautions.

#### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the MSDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

**According to the UNRTDG and ADG Code:** Not regulated for transport.

#### SECTION 15: REGULATORY INFORMATION

##### National Regulations:

<b>Water (7732-18-5)</b>	
Australian Inventory of Chemical Substances (AICS)	Listed
Canadian Domestic Substances List (DSL)	Listed
Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	Listed
European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed
Korean Existing Chemical List (ECL)	Listed
New Zealand Inventory of Chemicals (NZIoC)	Listed
Philippines Inventory of Chemicals and Chemical Substances	Listed
United States Toxic Substance Control Act (TSCA)	Listed
Mexican National Inventory of Chemical Substance (INSQ)	Listed
Taiwan Chemical Substance Inventory (TCSI)	Listed

<b>Hypochlorous acid (7790-92-3)</b>	
Canadian Non-Domestic Substances List (NDSL)	Listed
European Inventory of Existing Commercial Chemical Substances (EINECS)	Listed
Japanese Industrial Safety and Health Law (ISHL)	Listed
Korean Existing Chemical List (ECL)	Listed
New Zealand Inventory of Chemicals (NZIoC)	Listed
United States Toxic Substance Control Act (TSCA)	Listed
Taiwan Chemical Substance Inventory (TCSI)	Listed

#### SECTION 16: ADDITIONAL INFORMATION

**Date of Preparation or Latest Revision:** 24/02/2021

**Disclaimer:** The information and recommendations in this document are accurate to the best of our knowledge. User must conduct their own tests to determine the suitability of these products for their particular purpose. Because of numerous factors affecting results, Blue Science Technologies Pty Ltd makes no warranty of any kind, express or implied, including those of merchantability and fitness for purpose, other than the material conforms to our applicable current specifications. Blue Science Technologies Pty Ltd assumes no legal responsibility for use or reliance on the information contained in this Material Safety Data Sheet.