

SECTION 1: PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Identifier

Product Name: Blue Science Technologies GreenLyte

Product Form: Mixture

Synonyms: Sodium Hydroxide Solution

Intended Use of the Product

Multi-purpose Cleaner

Manufacturer's Details

Name: Blue Science Technologies Pty Ltd

Address: Unit 4, 127-129 Olympic Circuit, Southport QLD 4215

Phone: +61 1800 258 223

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Emergency Phone Number

+61 1800 258 223

SECTION 2: HAZARDOUS IDENTIFICATION

Classification of the hazardous chemical

GHS Hazard Classification: Specific target organ toxicity (single exposure) – Category 3
Skin Corrosion – Category 1A

Label Elements

Signal Word: DANGER

Hazard Statement: May Cause respiratory irritation
Causes severe skin burns and eye damage

Pictograms:



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	CAS#	w/w%	GHS-AU Classification
Water	7732-18-5	99.985	Not classified
Sodium Hydroxide	1310-73-2	0.015	Specific target organ toxicity (single exposure) – Category 3 Skin corrosion – Category 1A

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, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (Australia 13 11 26) or a doctor, or for at least 15 minutes.

Ingestion: If swallowed, do NOT induce vomiting.

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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.

SECTION 5: FIRE FIGHTING MEASURES

Hazchem code: 2R

Extinguish Media: Use an extinguishing agent suitable for the surrounding fire.

Special Hazards Arising from the Chemical

Fire Hazard: Not flammable

Explosion Hazard: Product is not explosive.

Special Protective Equipment and Precautions for Fire Fighters

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

Firefighting Instructions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Protection During Firefighting: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental Precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of contaminated absorbent material may pose the same hazard as the spilt product.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Put on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty container retains product residue and can be hazardous. Do not reuse container.

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, and strong oxidisers.

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
Sodium hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	2 mg/m ³

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Appropriate engineering controls:

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

Personal protective equipment:

Eye Protection: Tight sealing safety goggles. Face protection shield.

Skin and Body Protection: gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

Hygiene measures: wash hands, forearms and face thoroughly after handling chemical products before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash and safety showers are close to the workstation location.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties:

Physical State	:	Liquid
Appearance	:	Clear
Odour	:	no odour
Odour threshold	:	Not available
pH	:	11.5 ± 0.3
freezing point	:	0°C
Boiling point	:	100°C
Solubility in water	:	Complete

SECTION 10: STABILITY AND REACTIVITY

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

Conditions to avoid: Exposure to air or moisture over prolonged periods

Incompatible materials and possible hazardous reactions:

Strong acids, strong bases, and oxidising agents.

Hazardous decomposition products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Symptoms/Injuries After Inhalation: Irritation or damage to the mucous membranes of the respiratory tract. Nasal and coughing.

Symptoms/Injuries After Skin Contact: Pain, redness, blistering and possible chemical burn.

Symptoms/Injuries After Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. W/w contact may cause permanent damage.

Symptoms/Injuries After Ingestion: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhoea.

Chronic Symptoms: Data not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Acute Aquatic Toxicity: No information available

Ecology – General: No information available

Persistence and degradability: No information available

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Bioaccumulative potential: No information available

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

Regulation	UN No.	Proper shipping name	Classes	Packing group	Additional information
ADG	UN1824	SODIUM HYDROXIDE SOLUTION	8	III	<u>Hazchem code 2R</u>

SECTION 15: REGULATORY INFORMATION

National Regulations:

Water (7732-18-5)	
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

Sodium hydroxide (1310-73-2)	
Australian Inventory of Chemical Substances (AICS)	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS)	Listed
Korean Existing Chemical List (ECL)	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed
United States Toxic Substance Control Act (TSCA)	Listed
Swiss Giftliste List of Toxic Substances	Listed

SECTION 16: ADDITIONAL INFORMATION

Date of Preparation or Latest Revision: 22/12/2020

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