

Revision Date 01-Jan-2020

Version 7

## SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### Product identifier

**Product Name** Smart Sticks

**Product Code** A-0995

### Other means of identification

**UN Number** 2468

### Recommended use of the chemical and restrictions on use

**Recommended Use** Swimming pool chemical

**Uses advised against** No information available

### Details of manufacturer or importer

#### Supplier

BIOLAB AUSTRALIA PTY LTD

1 Susan Street

Hindmarsh SA 5007

AUSTRALIA

PHONE: (AU) 1800 635 743

### For further information, please contact

**Contact Point** Customer Service: 1800 635 743 (AU)

### Emergency telephone number

**Emergency telephone number** In an Emergency: Dial 000 (AU)  
For SPECIALIST advice in an EMERGENCY ONLY phone CHEMCALL - FREE CALL ALL HOURS: AU 1800 127 406

## SECTION 2: HAZARD(S) IDENTIFICATION

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

### GHS Classification

<b>Oxidising solids</b>	Category 2 - (H272)
<b>Acute toxicity - Oral</b>	Category 4 - (H302)
<b>Acute toxicity - Dermal</b>	Category 5 - (H313)
<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 2 - (H330)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)

### Label elements

**Signal word****DANGER****Hazard statements**

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H319 - Causes serious eye irritation

H330 - Fatal if inhaled \*\*

H335 - May cause respiratory irritation

**\*\* Product as sold is not expected to produce respiratory effects. See Section 11 (Toxicological Information) and Section 16 for additional details on inhalation.**

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapours/spray

Use only outdoors or in a well-ventilated area

Wear respiratory protection

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/combustible materials

Take any precaution to avoid mixing with combustibles

**Precautionary Statements - Response**

Call a POISONS INFORMATION CENTRE or doctor if you feel unwell

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISONS INFORMATION CENTRE or doctor

Call a POISONS INFORMATION CENTRE or doctor if you feel unwell

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Rinse mouth

**Fire**In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

No information available

**SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS, IN ACCORDANCE WITH SCHEDULE 8****Substance**

Chemical Name	CAS No	Weight-%
Trichloroisocyanuric acid	87-90-1	>90%

Non-hazardous ingredients

Proprietary

Balance

## Section 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	If symptoms persist, call a doctor. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
<b>Inhalation</b>	Remove to fresh air. Immediate medical attention is required. Call a doctor. If breathing is irregular or has stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a doctor.
<b>Skin contact</b>	Consult a doctor if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a doctor.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a doctor.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. If symptoms persist, call a doctor. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a doctor.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	No information available.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	Treat symptomatically.
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## SECTION 5: FIREFIGHTING MEASURES

### Suitable Extinguishing Media

#### **Suitable extinguishing media**

Use water in large amounts. Do NOT spray water on the product directly. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents

### Specific hazards arising from the chemical

Do not allow run-off from firefighting to enter drains or water courses Thermal decomposition can lead to release of irritating and toxic gases and vapours Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

### Special protective actions for firefighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment as required. Use water spray to cool unopened containers.

Hazchem code 1W.

## Section 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. If product contaminates rivers and lakes or drains inform respective authorities.

### Methods and material for containment and cleaning up

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for cleaning up**

Pick up and transfer to properly labelled containers. Neutralize with chalk, alkali solution or ammonia. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimise spreading. Soak up with inert absorbent material. Dam up. Keep in suitable, closed containers for disposal.

### Precautions to prevent secondary hazards

#### **Prevention of secondary hazards**

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **Reference to other sections**

No information available.

## SECTION 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

### Precautions for safe handling

#### **Advice on safe handling**

Avoid generation of dust. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before re-use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Dispose of rinse water in accordance with the local and national regulations.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers. Do not store near acids.

#### **Incompatible materials**

Acids. Bases. Reducing agents.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substances; this is irrespective of the recommendation involving the wearing of eye protection.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield. Eye wash bottle with pure water.

**Hand Protection** Wash hands before breaks and after work.

**Skin and body protection** Suitable protective clothing. Apron. Gloves made of plastic or rubber. Wear an impervious suit. Choose body protection according to the amount and concentration of the dangerous substance at work.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Odour</b>	Chlorine
<b>Appearance</b>	tablet	<b>Odour threshold</b>	No information available
<b>Colour</b>	white		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	3 - 3.2	@ 25°C in 1% Solution	
<b>Melting point / freezing point</b>	187 °C		
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>		No information available	
<b>Evaporation rate</b>		No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limit in Air</b>			
Upper flammability limit:			
Lower flammability limit:			
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Specific Gravity</b>		No information available	
<b>Water solubility</b>	ca. 12g/l @ 25°C		
<b>Solubility(ies)</b>		No information available	
<b>Partition coefficient</b>		No information available	
<b>Auto-ignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	

Kinematic viscosity	No information available
Dynamic viscosity	
Explosive properties	No information available
Oxidising properties	No information available

**Other Information**

VOC Content (%)	No information available
Density	0.94 - 0.96 g/cm <sup>3</sup>
Bulk density	No information available

**Section 10: STABILITY AND REACTIVITY****Reactivity**

May explode on heating and reacts violently with combustibles. Contact with acids liberates toxic gas Do not allow contact with combustible material such as paper, fabric, saw dust and kerosene.

No data available.

**Chemical stability**

Stable under normal conditions.

**Explosion data**

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

**Possibility of Hazardous Reactions****Possibility of Hazardous Reactions**

See Reactivity paragraph above.

**Conditions to avoid**

Contamination.

**Incompatible materials**

Acids. Bases. Reducing agents.

**Hazardous Decomposition Products**

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

**Section 11: TOXICOLOGICAL INFORMATION****Acute toxicity****Information on likely routes of exposure**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation**

May cause irritation. This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

**Eye contact** Avoid contact with eyes. Irritating to eyes.

**Skin contact** May cause irritation.

**Ingestion** No data available.

#### **Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 416.00  
 ATEmix (dermal) 2,051.00  
 ATEmix (inhalation-dust/mist) 0.21

2.4% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloroisocyanuric acid	= 406 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	>50 mg/L ( Rat ) 4 h

See section 16 for terms and abbreviations

#### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

##### **Skin corrosion/irritation**

No information available.

##### **Serious eye damage/eye irritation**

No information available.

##### **Sensitisation**

No information available.

##### **Germ cell mutagenicity**

No information available.

##### **Carcinogenicity**

No information available.

##### **Reproductive toxicity**

No information available.

##### **STOT - single exposure**

No information available.

##### **Chronic toxicity**

Avoid repeated exposure

##### **STOT - repeated exposure**

No information available.

##### **Aspiration hazard**

No information available.

## **Section 12: ECOLOGICAL INFORMATION**

##### **Ecotoxicity**

2.4 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Trichloroisocyanuric acid	-	0.13 - 0.5: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 0.06 - 0.11: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	0.16 - 0.18: 48 h <i>Daphnia magna</i> mg/L EC50 Static 0.21: 48 h <i>Daphnia magna</i> mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility****Mobility in soil**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available.

**Endocrine Disruptor Information .**

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Trichloroisocyanuric acid	Group III Chemical	-	-

**Section 13: DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste from residues/unused products**

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Empty remaining contents. Dispose of in accordance with federal, state and local regulations. Do not re-use container. Do not burn, or use a cutting torch on the empty drum.

**Section 14: TRANSPORT INFORMATION****Note:**

Limited quantity (LQ) exception is possible

**ADG**

UN Number 2468  
 Proper shipping name Trichloroisocyanuric acid, dry  
 Hazard Class 5.1  
 Packing Group II  
 Description UN2468, Trichloroisocyanuric acid, dry, 5.1, II  
 Hazchem code 1W

**IATA**

UN/ID no 2468  
 Proper shipping name Trichloroisocyanuric acid, dry  
 Hazard Class 5.1  
 Packing Group II  
 Description UN2468, Trichloroisocyanuric acid, dry, 5.1, II

**IMDG**

Proper shipping name Trichloroisocyanuric acid, dry  
 Hazard Class 5.1  
 Packing Group II  
 EmS-No F-A, S-Q  
 Description UN2468, Trichloroisocyanuric acid, dry, 5.1, II



**Marine pollutant**

This material meets the definition of a marine pollutant

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No information available

**Section 15: REGULATORY INFORMATION****Regulatory information****National regulations****Australia**

Classified as a hazardous substance in accordance with the criteria of Safe Work Australia - Globally Harmonised System (GHS)

See section 8 for national exposure control parameters

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 6**International Inventories**

<b>TSCA</b>	Complies
<b>NZIoC</b>	Complies
<b>AICS</b>	Complies

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**NZIoC** - New Zealand Inventory of Chemicals**AICS** - Australian Inventory of Chemical Substances**International Regulations****Ozone-depleting substances (ODS)** Not applicable**Persistent Organic Pollutants** Not applicable**Export Notification requirements** Not applicable**SECTION 16: ANY OTHER RELEVANT INFORMATION****Revision Date** 01-Jan-2020**Revision Note**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

**Reference Sources for Section 11**

For purpose of clarity, inhalation toxicity has been disregarded as there is disparity between the tested material form (very fine dust particles) and that of the commercial product (granule or solid). This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngospasm and edema, shortness of breath, bronchoconstriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

**Disclaimer**

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

**End of Safety Data Sheet**