

Revision Date 18-Dec-2018

Version 5

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

### Product identifier

**Product Name** Metal Go

**Product Code** A-0951

### Other means of identification

### 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>Acute toxicity - Oral</b>	Category 5
<b>Skin corrosion/irritation</b>	Category 2
<b>Serious eye damage/eye irritation</b>	Category 2A

### Label elements



**Signal word** Warning

### Hazard statements

H319 - Causes serious eye irritation  
H315 - Causes skin irritation

H335 - May cause respiratory irritation

#### Precautionary Statements - Prevention

Keep container tightly closed  
 Keep only in original container  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

Immediately call a POISONS INFORMATION CENTRE or doctor  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Take off all contaminated clothing and wash it before reuse  
 IF ON SKIN: Wash with plenty of water and soap  
 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  
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Precautionary Statements - Storage

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-%
citric acid	77-92-9	100

Non-hazardous ingredients

Proprietary

Balance

### Section 4: FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Call a doctor or poisons information centre immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a doctor or poisons information centre immediately.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

**Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed****Note to doctors**

Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal oedema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Suitable Extinguishing Media****Suitable extinguishing media**

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

**Unsuitable extinguishing media**

No information available

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating and toxic gases and vapours In the event of fire and/or explosion do not breathe fumes

**Special protective actions for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

**Section 6: ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

**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**

Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimise spreading and keep powder dry. Avoid creating dust. Dam up. After cleaning, flush away traces with water.

**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**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

### 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 dry, cool and well-ventilated place. Keep in properly labelled containers.

#### **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidising agents. Amines.

## 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**

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.

#### **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.

#### **Respiratory protection**

In the case of dust formation use a respirator with an approved filter.

#### **Environmental exposure controls**

No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### **Physical state**

Solid

<b>Appearance</b>	crystalline	<b>Odour</b>	odouless
<b>Colour</b>	white	<b>Odour threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	1.5 - 2.5	5% solution	
<b>Melting point / freezing point</b>	153 °C / 307 °C °F		
<b>Boiling point/boiling range</b>	Decomposes		
<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>	Soluble in water		
<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	
<b>Kinematic viscosity</b>		No information available	
<b>Dynamic viscosity</b>			
<b>Explosive properties</b>	No information available		
<b>Oxidising properties</b>	No information available		
<b>Other Information</b>			
<b>Molecular weight</b>	192.13 g/mol		
<b>VOC Content (%)</b>	No information available		
<b>Bulk density</b>	No information available		

## Section 10: STABILITY AND REACTIVITY

### Reactivity

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**

Dust can form an explosive mixture with air.

### Conditions to avoid

Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.

### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidising agents. Amines.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Information on likely routes of exposure

##### Product Information

<b>Inhalation</b>	Irritating to respiratory system.
<b>Eye contact</b>	Severely irritating to eyes.
<b>Skin contact</b>	May cause irritation.
<b>Ingestion</b>	No known effect.

#### Numerical measures of toxicity - Product Information

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

- 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

100% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
citric acid	= 3 g/kg ( Rat ) = 3000 mg/kg ( Rat )	-	-

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**

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.

##### STOT - repeated exposure

No information available.

**Aspiration hazard**

No information available.

**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity**

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
citric acid	-	1516: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	120: 72 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.

Chemical Name	Partition coefficient
citric acid	-1.72

**Other adverse effects**

No information available.

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

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging**

Do not re-use container.

**Section 14: TRANSPORT INFORMATION****ADG** Not regulated**IATA** Not regulated**IMDG** Not regulated**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

**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** 18-Dec-2018

**Revision Note**

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

**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**

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**End of Safety Data Sheet**