

# MATERIAL SAFETY DATA SHEET

SG  
**Bio-Sure** Cooling Tower Water Treatment

## Section 1: Identification of the Substance and of the Company

<b>Distributor's Name:</b>	Bio-cell NZ Limited
<b>Distributor's Address:</b>	51 Felix Street, Penrose,1642, Auckland, New Zealand
<b>Emergency Contact Number:</b>	+64 9 580 1567
<b>Facsimile Number:</b>	+64 525 5835
<b>E-mail Address:</b>	sales@biosure.co.nz
<b>Website:</b>	www.biosure.co.nz
<b>Product Name:</b>	<b>Bio-Sure</b> <sup>SG</sup> a water soluble glass product.
<b>Product Use:</b>	Water treatment product that automatically controls waterborne bacteria, including legionella, scale, corrosion and pH levels in cooling towers and their water reticulation systems.

## Section 2: Composition & Information of Ingredients

<b>Distinction of product or compound</b>	Single Product
<b>Chemical family</b>	Inorganic Oxides
<b>Ingredients</b>	SiO <sub>2</sub> B <sub>2</sub> O <sub>3</sub> Na <sub>2</sub> O Ag <sub>2</sub> O
<b>Information of ingredients</b>	Amorphous Reticulation Structure
<b>CAS number</b>	65997-17-3
<b>EINECS number</b>	266-046-0
<b>United Nations classification &amp; number</b>	Not Applicable

## Section 3: Hazardous Chemical Substance

<b>Name of classification</b>	Not Applicable
<b>Dangerous factors</b>	Not Applicable
<b>Harmful factors</b>	Not Applicable
<b>Environmental influence</b>	Not Applicable

## Section 4: Emergency & First Aid Procedures

<b>Eyes</b>	Flush with water, consult Physician
<b>Skin</b>	Wash with soap and water
<b>Inhalation</b>	Remove victim to fresh air, consult Physician
<b>Ingestion</b>	Give plenty of water to drink, consult Physician

## Section 5: Health & Hazard Identification

<b>Threshold Limited Value (TLV)</b>	None
<b>Symptoms of exposure &amp; routes of entry</b>	
<b>Eyes</b>	None
<b>Skin</b>	None
<b>Inhalation</b>	None
<b>Ingestion</b>	None

## Section 6: Fire Fighting Measures and Hazard Information

<b>Flash Point</b>	None
<b>Flammable Limit</b>	None
<b>Auto Ignition Temperature</b>	None
<b>Unusual Fire and Explosion Hazards</b>	None
<b>Special Fire Fighting Procedures</b>	None

**Section 7: Accidental Release Measures**

Special spill or leak procedures for this product are not needed. The product Bio-Sure<sup>SG</sup> is a water soluble glass, in solid form, encased within its own packaging. If the product is dry when spilled, no hazardous situations will occur. If Bio-Sure<sup>SG</sup> is spilled and comes into contact with water, no reaction will occur for the first two days. After this period, the product will start dissolving at a constant rate of 25% per 1000 hours when fully emerged in water.

The product can at all times be handled without special protection and is no danger to the environment.

**Section 8: Handling & Storage**

The product Bio-Sure<sup>SG</sup> consists of solid materials. The appearance is of yellow broken amorphous glass. This is packaged within a polypropylene bag, which in turn is encased in a slotted plastic container. The net weights of the Bio-Sure<sup>SG</sup> containers, including product, is normally 0.5kg and 1kg. The 0.5kg & 1kg containers are shipped in packs of 20 containers, with gross weights of 14 & 28kgs respectively.

**Section 9: Fire Fighting Measures and Hazard Information**

<b>Eye protection</b>	No special eye protection is required
<b>Skin protection</b>	No special skin protection is required
<b>Respiratory protection</b>	No special protection is required
<b>Ventilation</b>	No special ventilation is required

Bio-Sure<sup>SG</sup> does not produce dust, fumes or gases. The product can be safely handled.

**Section 10: Physical & Chemical Properties**

<b>Appearance</b>	White glass, no odour
<b>Boiling Point</b> (°C)	None
<b>Melting Point</b> (°C)	Softening temperature, approximately 600°C
<b>Vapour Pressure</b> (mm/Hg)	None
<b>Density</b> (°C)	Approximately 2.5 @ 25°C
<b>Volatilizing</b>	None
<b>Vapour density</b> (air = 1)	None
<b>Dissolution</b> (water)	Approximately 40% @ 100°C soaking for 1 hour
<b>Viscosity</b>	None
<b>Stench</b>	None
<b>Freezing point</b>	None

**Section 11: Harmful Information**

<b>Skin corrosion</b>	No information
<b>Stimulation</b> (skin & eyes)	Weak stimulation
<b>Acute oral toxicity examination</b>	LD50, 2000mg/kg over Bio-Sure SGI
<b>Chronicity toxicity</b>	No information
<b>Genital toxicity</b>	No information

**Section 12: Information on Influence to Environment**

<b>Decomposition gender</b>	No information
<b>Accumulation gender</b>	No information

**Section 13: Applied Law**

**PATR Law** (Pollutant release & transfer register)

**Class 1 designated chemical substance No 304** Boron & the compound - content 15%

**Section 14: Other**

Please note that the details of this description are for the purposes of presenting information & not for guaranteeing each item.