

SAFETY DATA SHEET (SDS)

BIOLOGIC™ SR2

Section 1: Identification of Substance and Company Identification

- (a) Product Identifier: **BIOLOGIC™ SR2**
- (b) Other Means of Identification: Product numbers 2012001; 2010012; 9012003; 2034012; 2002001; 2022001; 2021001; 201M001; 201M401.
- (c) Recommended Use: To remove objectionable odors at the source. Apply to landfill working face, finished cover, compost, roadways, biosolids, sludge, wastewater or any other odor causing material.
- (d) Manufacturer:
SciCorp International Corp.
3300 Ridgeway Drive, Unit 13, Phone: (905) 829-1749
- (e) Emergency Telephone Number: 1-800-897-2053

Section 2: Hazards Identification

1. Hazard Classification:

Skin Irritation: not a skin irritant

Dermal Sensitizer: not a dermal sensitizer

Oral: LD50>5000mg/kg body weight (RAT)

Dermal Toxicity: not toxic by dermal exposure LD50>2000mg/kg body weight (RAT)

Inhalation: not toxic by inhalation exposure

Systemic and Other Effects: Repeated exposures not expected to cause any significant adverse effect.

Eye Irritation: the product may cause mild eye irritation

Carcinogenic Effects: not available

Mutagenic Effects: not available

Teratogenic Effects: not available

Developmental Effects: not available

2. Signal Word, Risk Phrases:

Signal Word:

Warning: May cause eye irritation if concentrated solution is applied directly to eyes

Risk Phrases:

P305: IF CONCENTRATED SOLUTION IN EYES: rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing for at least 5 minutes.

3. Other Hazards:

None

Ingredients with Unknown Toxicity: None

There are no known chronic hazards associated with the product

Section 3: Composition and Information on Ingredients

	Proprietary blend of plant extracts and minerals		
Copper (Cu)	0.2% by weight	CAS number: 7440-50-8	
Manganese (Mn)	0.8% by weight	CAS number: 7439-96-5	
Zinc (Zn)	0.9% by weight	CAS number: 7440-66-6	

Section 4: First Aid Measures

Eyes: Irrigate immediately with water for at least 15 minutes

Skin: Wash with soap in flowing water or shower

Ingestion: Rinse mouth with water and seek medical attention immediately

Inhalation: No adverse effects

Section 5: Fire-Fighting Measures

Fire-Fighting Procedures: Regular fire-fighting procedures. Substance is not flammable.

Fire Hazards Arising from the Substance: None

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Section 6: Accidental Release Measures

- (a) Personal Precautions, Protective Equipment, and Emergency Procedures:
Wear safety glasses and gloves. Soak up with absorbent material and collect for disposal. Area may be cleaned with plenty of water.
- (b) Methods and Materials for Containment and Cleaning Up:
Dispose in accordance with local regulations.

Section 7: Handling and Storage

- (a) Precautions for Safe Handling:
Ventilation: Cool, well-ventilated area is adequate, do not freeze
Respiratory Protection: Not required
Skin Protection: No precautions other than clean body-covering clothing required.
Eye Protection: Wear safety glasses

Section 8: Exposure Controls /Personal Protection

Inhalation Protection:	Respiratory protection is not required.
Skin Protection:	Wear gloves and protect areas that have skin sensitivity or abrasions.
Eye Protection:	Wear safety glasses that are fitted around the eye areas.
Other Protection:	Impermeable, fully covered clothing is recommended.

Section 9: Physical and Chemical Properties

- (a) Appearance: Dark brown liquid
- (b) Odor: slight sweet odor
- (c) Odor Threshold: N/A
- (d) pH: 3.0 – 4.0
- (e) Boiling Point= Decomposes (100°C); Freezing Point: N/A
- (f) Initial Boiling Point and Boiling Point Range: N/A
- (g) Flash Point: N/A
- (h) Evaporation Rate: N/A
- (i) Flammability: Stable liquid
- (j) Upper/ Lower Flammability or Explosive Limits: N/A
- (k) Vapor Pressure: Low
- (l) Vapour Density: N/A
- (m) Specific Gravity: 1.110 at 25°C
- (n) Solubility in Water: >100g/100g
- (o) Partition Co-efficient: n-octanol/ water: N/A
- (p) Auto-Ignition Temperature: N/A
- (q) Decomposition Temperature: 100°C
- (r) Viscosity: N/A

Section 10: Stability and Reactivity

- (a) Reactivity: Stable
- (b) Chemical Stability: Stable. Contact with strong bases may cause metals to precipitate
- (c) Possibility of Hazardous Reactions/Polymerization: Will not occur
- (d) Conditions to Avoid: Excessive heat and/or freezing
- (e) Incompatible Materials: Contact with strong bases may cause metals to precipitate
- (f) Hazardous Decomposition Products: None

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Section 11: Toxicological Information

- (a) Routes of Exposure:
Eye: Eye irritant. May cause slight temporary eye irritation.
Skin Contact: the product is not a skin irritant
Skin Absorption: Not a Dermal Sensitizer. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts
Ingestion: Acute Oral Toxicity under Tox Category IV. Single dose oral toxicity is low. No hazards anticipated from ingestion incidental to industrial exposure.
Inhalation: Vapors are unlikely to occur to the physical properties
- (b) Symptoms Related to the Physical, Chemical and Toxicological Characteristics:
Skin Contact: None. May cause response if skin is abraded.
Eye Contact: May cause redness.
Ingestion: May cause nausea, vomiting, loss of appetite, stomach cramps, diarrhea, headaches, tremors.
Inhalation: none
- (c) Delayed and Immediate Effects and Chronic Effects from Short-and Long-Term Exposure: N/A
- (d) Acute Toxicity Estimates:
Acute Eye Irritation: Mild eye irritant.
Acute Skin irritation: Not a skin irritant.
Acute Oral Toxicity: Not toxic by oral ingestion maximum limit dose level of 5.0 g/kg.
Acute Dermal Toxicity: Not toxic by dermal exposure maximum limit dose level of 2.0 g/kg.
Acute Inhalation Toxicity: Not toxic by inhalation exposure maximum limit dose level of 2.0 mg/L.
Skin Sensitization: The compound is not a dermal sensitizer.
- (e) Carcinogenicity: No known carcinogens
- (f) Animal Toxicity
LD50 > 5 g/Kg body weight (Test OPPTS 870.1100)

Section 12: Ecological Information

Ecotoxicity: Not available.
BOD5 and COD: Not available.
Biodegradation: 95%
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Dispose in accordance with local regulations

Section 14: Transport Information

The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is: NOT REGULATED.
The ICAO Technical Instructions/IATA Dangerous Good Regulations for this product is: NOT REGULATED.

Section 15: Regulatory Information

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: NOT TO HAVE MET ANY HAZARD CATEGORY. The Workplace Hazardous Material Information System (W.H.M.I.S.) Classification for this product is: This product is not a "Controlled Product" under WHMIS.

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All components of this product are on the US Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory (or excluded).

All components of this product are on Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories (or excluded).

Section 16: Date of Preparation or Last Revision

Revision Date: March 8, 2023

NOTICE: This safety information sheet is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied is given and we cannot accept responsibility for damage of any kind that may be caused by using these data or product concerned.

Regulatory requirements are subject to change and may differ from one location to another; it is the user's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.