

**Low Endotoxin Fucodian™**  
**50.0 mg/mL Fucoidan solution**  
**Safety Data Sheet**

**1. Product and company identification**

<b>Common name:</b>	Low Endotoxin Fucodian™
<b>Recommended use:</b>	Non-human subjects researches, laboratory chemicals, synthesis of substances
<b>Restrictions on use:</b>	The product is not for use in humans.
<b>Manufacturer:</b>	The Fucoidan Store™
<b>Address:</b>	8 – 3071 No. 5 Road, Richmond, British Columbia, Canada V6X 2T4
<b>Telephone:</b>	1-604-222-9577
<b>Facsimile:</b>	1-844-429-7667
<b>Emergency Telephone:</b>	1-604-222-9577

**2. Hazard identification**

<b>Classification of substance or mixture:</b>	Not a hazardous substance or mixture.
<b>GHS label elements, including precautionary statements:</b>	Not a hazardous substance or mixture.
<b>Other hazards which do not result in classification</b>	None.

**3. Composition / information on ingredients**

<b>Synonyms</b>	Fucoidan
<b>Composition:</b>	Fucoidan (47.5 – 52.5 mg/mL; CAS number: 9072-19-9); water; phosphate buffer. Fucoidan is a natural polysaccharide (polymer) comprised primarily of fucose monomers.

**4. First aid measures**

<b>Inhalation:</b>	If inhaled vapours, mist or gas, move person into fresh air. If not breathing, give artificial respiration and get medical attention.
<b>Skin contact:</b>	Wash off with soap and plenty of water. Get medical attention if irritation occurs.
<b>Eye contact:</b>	Check for and remove any contact lenses. Immediately flush eyes with water for at least 15 minutes with eyelids held wide open. Get medical attention if irritation occurs.
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water. If large quantities of this product are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt and waistband.
<b>Most important symptoms and effects (acute or delayed):</b>	The most important known symptoms and effects are described in section 11.
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.

**5. Fire and explosion data; and fire-fighting measures****Flammable properties:**

Flammability:	No data available.
Flash point:	No data available.
Ignition temperature:	No data available.
Flammable limits:	No data available.
Products of combustion:	No data available.
Fire hazards in presence of various substances:	No data available.

**Special remarks on explosion hazards:**

None.

**Suitable extinguishing media:**Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.**Special protective equipment and precautions for fire-fighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures****Personal precautions:**

Avoid breathing vapours, mist or gas. Product is a slip hazard. For personal protection see section 8.

**Environmental Precautions:**

No special environmental precautions required.

**Methods for containment and cleaning up:**

Use appropriate tools to put the spilled liquid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface. Keep in suitable, closed containers for disposal.

**7. Handling and storage****Handling:**

Provide appropriate exhaust ventilation at places where mist is formed. Normal measures for preventive fire protection. General industrial hygiene practice. For personal protection see section 8.

**Storage:**

Keep container tightly closed in a dry and well-ventilated place. Protect from heat. Store at 15 to 25 degrees Celsius or 59 to 77 degrees Fahrenheit.

**8. Exposure controls / personal protection****Engineering controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal protective equipment:**

Respiratory protection:

Not required under normal use conditions.

Hand protection:

Use laboratory protective gloves.

Eye protection:

Use laboratory safety glasses.

Hygiene measures:

Use general industrial hygiene practice.

Other remarks:

Use a proper lab coat.

**Personal protection in case of a large spill:**

Use regular personal protective equipment listed above.

**Exposure limits:**

Contains no substances with known occupational exposure limit values.

**9. Physical and chemical properties****Appearance:**

Physical state:	Liquid.
Color:	Clear colorless.
Odor:	None.
Odor threshold:	No data available.

**Safety data:**

pH:	7.4 to 7.8
Melting point:	No data available.
Boiling point:	No data available.
Flash point:	No data available.
Evaporation rate:	No data available.
Ignition temperature:	No data available.
Lower flammable/ explosive limit:	No data available.
Upper flammable/ explosive limit:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Relative density:	No data available.
Water solubility:	No data available.
Partition coefficient:	No data available.
Decomposition temperature:	No data available.
Viscosity:	< 46 cP at 18 °C (64.4°F)

**10. Stability and reactivity**

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available. No known hazardous reaction.
<b>Conditions to avoid:</b>	Storage at temperatures outside the range of 15 to 25 degrees Celsius, freezing, exposure to direct sunlight, and storage in hot humid areas.
<b>Materials to avoid:</b>	Strong oxidizing agents and strong reducing agents.
<b>Hazardous decomposition products:</b>	Hazardous decomposition products formed under fire conditions: carbon dioxides.

**11. Toxicological information**

<b>Acute toxicity:</b>	No data available.
<b>Irritation and corrosion:</b>	No data available.
<b>Sensitization:</b>	No data available.
<b>Chronic exposure:</b>	No data available.
<b>Carcinogenic, mutagenic or reproductive effects:</b>	No data available.
<b>Potential acute health effects:</b>	
Eyes:	May cause eye irritation.
Skins:	May be harmful if absorbed through skin. May cause skin irritation.
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Injection:	May be harmful if injected.
<b>Special remarks on toxic effects on humans:</b>	No data available.

**12. Ecological information**

<b>Elimination information (persistence and degradability):</b>	No data available.
<b>Ecotoxicity effects:</b>	No data available.
<b>Bioaccumulative potential:</b>	No data available.
<b>Mobility in soil:</b>	No data available.
<b>Further information on ecology:</b>	No data available.

**13. Disposal considerations**

<b>Products:</b>	Observe all federal, state, provincial and local environmental regulations.
<b>Contaminated packaging:</b>	Observe all federal, state, provincial and local environmental regulations.

**14. Transport information**

<b>DOT (US):</b>	Not dangerous goods.
<b>IMDG:</b>	Not dangerous goods.
<b>IATA:</b>	Not dangerous goods.
<b>Special provisions for transport:</b>	Not applicable.

**15. Regulatory information**

<b>HMIS (USA) Classification:</b>	Not HMIS controlled.
<b>NFPA (USA) status:</b>	Not NFPA controlled.
<b>TSCA (USA) status:</b>	Not on the TSCA inventory list.
<b>DSL/NDSL (Canada):</b>	Not on the DSL or NDSL inventory list.
<b>WHMIS (Canada) status:</b>	Not WHMIS controlled.
<b>TDG (Canada) status:</b>	Not on the TDG inventory list.
<b>DSCL (EEC) status:</b>	Not classified according to EU regulations.

**16. Other information****Further information:**

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