

## 1 Identification

Product Identifier Universal Bioink™

**Supplier** VoxCell BioInnovation Inc.

300-637 Bay Street

Victoria, British Columbia V8T 5L2

Canada

orders@voxcellbio.com

Recommended use and

restriction on use Emergency telephone

number and any

restrictions on the use of that number, if applicable

For Research and Development use only. Not intended for use by

consumers or children.

IMMEDIATELY contact the local POISON CONTROL center for your area

(24 hours):

Alberta 1-800-332-1414

British Columbia 1-800-567-8911

Manitoba 1-855-776-4766

New Brunswick 911

Newfoundland and Labrador 1-866-727-1110

Northwest Territories 1-800-332-1414

Nova Scotia and Prince Edward Island 1-800-565-8161, 1-800-332-1414

or 911

Nunavut 1-800-268-9017 Ontario 1-800-268-9017 Quebec 1-800-463-5060

Saskatchewan 1-866-454-1212 Yukon Territory 867-393-8700 United States call 1-800-222-1222

Substance or mixture Mixture

## 2 Hazard Identification

Signal Word None

Pictographs No symbols

**Hazard Classifications and** 

categories

Does not meet any hazard classification criteria.

Hazard Statements Read the label and this safety data sheet before handling, using or

storing this product.

**Precautionary Statements** 

PREVENTION Avoid skin and eye contact. Do not eat this product. Avoid breathing

dusts, vapors, mists or fumes generated when using this product.

**RESPONSE** Wash skin thoroughly. If in eyes rinse with water for 15 minutes and

obtain medical assistance if irritation occurs or persists.

### Safety Data Sheet



STORAGE Store between 2 and 8 °C. Protect from light and avoid temperature

fluctuations.

**DISPOSAL** Dispose of unused product and containers in accordance with local

regulations.

Other Hazards May cause skin and eye irritation. Ingestion may cause gastrointestinal

irritation. May cause respiratory irritation.

% of ingredients of

unknown toxicity

Not applicable - this product does not meet any health hazard

classification criteria.

## 3 Composition / Information on ingredients

Chemical Name and Synonyms	CAS#	Concentration % by weight
No hazardous ingredients	Not applicable	Not applicable

#### 4 First Aid Measures

Description of necessary first aid measures

**INHALATION** Remove to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Consult a doctor if you feel unwell

or if any respiratory irritation should occur.

**INGESTION** Do not induce vomiting. Never give anything by mouth to an

unconscious person. Rinse out the mouth with water. Get medical

attention immediately.

**SKIN CONTACT** Immediately remove contaminated clothing and shoes. Wash the

affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before

reuse. Seek medical attention if symptoms occur.

**EYE CONTACT** Immediately flush eyes with plenty of clean water for an extended time,

not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemicals in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion.

Seek medical attention if irritation develops or persists.

The most important symptoms and effects (acute or delayed)

Immediate and special

treatment

May cause skin and eye irritation. Ingestion may cause gastrointestinal

irritation. May cause respiratory irritation.

Treat symptomatically. A copy of this Safety Data Sheet must accompany a worker seeking treatment for potential exposure to this

product.



## **5 Fire-Fighting Measures**

Suitable and unsuitable extinguishing media Special hazards

Use water spray, foam, dry chemical or carbon dioxide suitable for surrounding fire.

Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Irritating or toxic substances may be emitted upon burning, combustion or decomposition including oxides of carbon.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus (SCBA) equipped with a full-facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing suitable for surrounding fire. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations. See section 9 for additional information.

#### **6 Accidental Release Measures**

Personal precautions Protective equipment Emergency procedures Do not touch spilled material without personal protective equipment. Wear impervious gloves and eye protection.

If spilled in an enclosed area, ventilate. Eliminate ignition sources. Personal protective equipment must be worn.

Method and materials for containment and clean up

Do not flush product into public sewer, water systems or surface waters.

Stop leak if without risk. Move containers from spill area. Wear proper personal protective clothing and equipment. Avoid generating dust – shovel or sweep and place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

## 7 Handling and Storage

## Precautions for safe handling

As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye and skin contact. Avoid inhalation of aerosol, mist, spray, fume, vapor or dust generated by this product. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse.



# Conditions for safe storage including incompatibilities

Keep away from heat, sparks and open flames. Store between 2 and 8 °C (35 and 46 °F) away from light and heat. Store under well-ventilated conditions. Store this material away from incompatible substances such as strong oxidizing substances. Do not store in open, unlabeled or mislabeled containers. Keep the container closed when not in use. Empty container containing residual product which may exhibit hazards of product. Do not reuse empty containers without commercial cleaning or reconditioning.

## **8 Exposure Controls / Personal Protection**

Appropriate engineering controls

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain air concentrations below occupational exposure standards. When necessary, use mechanical handling to reduce human contact with materials.

Individual protection measures/personal protective equipment

Eyewash fountains and safety showers are recommended in the work area.

Eye/Face Skin

Safety glasses or goggles to prevent contact with eyes.

Use good laboratory/ workplace procedures including personal protective clothing: lab coat and impervious gloves.

Respiratory

A respirator should not be required when using or handling this product. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

IngredientExposure limit valueNo hazardous ingredients – follow local requirements<br/>for particles not otherwise listed or specified, such as<br/>nuisance dusts.Recommended: 10 mg/m³ (inhalable<br/>fraction) 3 mg/m³ (respirable fraction)

## 9 Physical and Chemical Properties

Physical StateLyophilized solidAppearanceClump, powderColorWhite to off-whiteOdorNot availableOdour ThresholdNot availablePHNot available

### Safety Data Sheet



Melting / Freezing Point °C Not available Initial Boiling Point / Boiling Range °C Not available **Evaporation Rate** Not available Flammability in the case of solids and gases Not applicable Flash Point °C Not available Not available **Upper and Lower Flammability or Explosive Limits Auto-Ignition Temperature °C** Not available **Vapor Pressure** Not available **Vapor Density** Not available **Relative Density** Not available **Solubility** Not available **Partition Coefficient** Not available

(n-Octanol/Water)

**Decomposition Temperature °C** Not available **Viscosity** Not applicable

## 10 Stability and Reactivity

Reactivity This product is stable.

**Chemical stability** This product is stable under recommended storage conditions.

Possibility of hazardous

reactions

Hazardous polymerization will not occur.

**Conditions to avoid** Excessive heat and sources of ignition.

Avoid strong oxidizing agents. Avoid high temperatures. Incompatible materials

**Hazardous decomposition** 

products

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

## 11 Toxicological Information

Likely route of exposure Eye, skin, inhalation and ingestion

Not available

**Symptoms** 

**Eves** May cause irritation. Skin May cause irritation. May cause irritation. Inhalation Ingestion May cause irritation.

**Delayed effects from** 

short- and long-term

exposure

Carcinogenicity No component of this product present at concentrations greater than

or equal to 0.1% has been identified as a probable, possible or

recognized human carcinogen by IARC.

Not available Mutagenicity

### Safety Data Sheet



Reproductive toxicity

Other effects

Not available

To our knowledge, the chemical, physical and toxicological properties

have not been fully investigated.

Numerical measures of	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> (Gas, Vapor, Mist,
toxicity including ATEs			Fume)
No hazardous ingredients	Not available	Not available	Not available

## 12 Ecological Information

Ecotoxicity, if available

Not available

Persistence and

Not available

biodegradability **Bioaccumulative potential** 

Not available

Mobility in soil

Not available

Other adverse effects

Not available

## 13 Disposal Considerations

Dispose of unused contents (incineration) in accordance with national **Disposal instructions** 

and local regulations.

Dispose of containers in accordance with national and local **Disposal methods** 

regulations. Ensure the use of properly authorized waste management companies, where appropriate. See section 8 for recommendations on

the use of personal protective equipment.

## 14 Transportation Information

**NOT REGULATED UN Number Proper Shipping Name** Not applicable Not applicable Hazard Class(es) **Packing Group** Not applicable **Environmental Hazards** Not applicable Not applicable **Special precautions** 

Label None

**Classification Statement** This product has been classified in accordance with the Transportation

of Dangerous Goods Regulations and 49CFR DOT regulations.



## 15 Regulatory Information

Canada's Domestic

All ingredients appear on Canada's Domestic Substances List or

Substances List (DSL) Non-Domestic Substances List (NDSL) and NDLS substances may be

subject to notification depending on volumes - contact us for more

information.

**Significant New Activity** 

notice (SNAc)

**National Pollutant Release** 

**Inventory (NPRI)** 

**Environmental Emergency** 

Regulations (E2)

**US TSCA Inventory Status** 

Significant New Use Rule

**OSHA SARA III** 

**Emergency Planning** 

(301-303)

**Emergency Release (304)** 

Storage reporting

(311-312)

**CERCLA** reportable

quantity

**Hazardous Air Pollutants** 

(HAPS)

**California Proposition 65** 

HMIS

**European EINECS** 

Inventory

None

None

None

All ingredients appear on the TSCA inventory or are exempted.

None

None

None

None

None

None

None

None

1-0-0

IECS All ingredients appear on the list

## 16 Other Information

Date of the latest revision October 12, 2022

**Revision number** 1 **Revision details** New

**Abbreviations** CERCA – Comprehensive Environmental Response, Compensation and

Liability Act

EINECS – European Inventory of Existing Commercial Substances EPCRA – Emergency Planning and Community Right to Know Act

HMIS - Hazardous Materials Identification System - American

**Coatings Association** 

OSHA – Occupational Safety and Health Administration SARA – Superfunds Amendments and Reauthorization Act

TSCA - Toxic Substances Control Act



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