

#### 1 Identification

Product Identifier Bioink Photoinitiator: LAP

**Supplier** VoxCell BioInnovation Inc.

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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 as a Photoinitiator for Bioink.

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

**ble** 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 Substance

## 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.



Store between 2 and 8 °C (35 and 46 °F) away from light and heat.

**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
Lithium phenyl-2,4,6- trimethylbenzoylphosphinate		
Lithium PTMB phosphinate	85073-19-4	>95
LAP		

#### **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)

May cause skin and eye irritation. Ingestion may cause gastrointestinal

irritation. May cause respiratory irritation.

Immediate and special treatment

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, phosphorous and lithium.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus (SCBA) equipped with a full-face piece 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 products into public sewer, water systems or surface waters.

Stop leaking if without risk. Move containers from the spill area. Wear proper personal protective clothing and equipment. Avoid generating dust – shovel or sweep and place into labeled, closed containers; store in a 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,



Conditions for safe storage including incompatibilities

swallowing or ingesting this product. Wash contaminated clothing before reuse.

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 containers contain residual products which may exhibit hazards of the 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 dust is 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).

Ingredient

No hazardous ingredients – follow local requirements for particles not otherwise listed or specified, such as nuisance dusts.

Exposure limit value

Recommended: 10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)

## 9 Physical and Chemical Properties

Physical StateSolidAppearancePowderColorWhiteOdorNot available



**Odour Threshold** Not available Not available рH Melting / Freezing Point °C Not available Initial Boiling Point / Boiling Range °C Not available Not available **Evaporation Rate** Flammability in the case of solids and gases Not applicable Flash Point °C Not available **Upper and Lower Flammability or Explosive Limits** Not available **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.

Hazardous polymerization will not occur.

Possibility of hazardous

reactions

Conditions to avoid Excessive heat and sources of ignition.

**Incompatible materials Hazardous decomposition** 

products

Avoid strong oxidizing agents. Avoid high temperatures.

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, oxides of phosphorous, lithium oxides and other products of

incomplete combustion.

## 11 Toxicological Information

Likely route of exposure Eye, skin, inhalation and ingestion

**Symptoms** 

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

**Delayed effects from** short- and long-term

exposure

Not available



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.

Mutagenicity Reproductive toxicity Not available Not available

Other effects 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

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

and local regulations.

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

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 Hazard Class(es) Not applicable

**Packing Group Environmental Hazards**  Not applicable Not applicable Not applicable

**Special precautions** 

None

Label



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 Does not appear on Canada's Domestic Substances List or

Substances List (DSL) Non-Domestic Substances List and may be subject to notification

depending on volumes (100 kg/yr) – contact us for more information.

Significant New Activity

notice (SNAc)

None

**National Pollutant Release** 

Inventory (NPRI)

None

**Environmental Emergency** 

Regulations (E2)

None

US TSCA Inventory Status Exempted (Research and Development or Low Volume) - contact us

for more information.

**Significant New Use Rule** 

**OSHA SARA III** 

None

**Emergency Planning** 

(301-303)

None

Emergency Release (304) None

Storage reporting

None

(311-312)

CERCLA reportable

None

**Hazardous Air Pollutants** 

(HAPS)

quantity

None

**California Proposition 65** 

None

**HMIS** 

1-0-0

## 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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