

## **Section 1. Product and Manufacturer Identification**

<b>Product Name:</b>	<b>LIVE-Step™ Cell Assay System</b>
<b>Catalog Number:</b>	<b>82648-1, 82648-2, 82648-3</b>
<b>CAS number:</b>	Not available.
<b>Recommended Usage:</b>	<p>This product is intended for use in a research setting for the growth of cell culture.</p> <p>This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, and agricultural applications.</p>
<b>Manufacturer Information:</b>	<p>BPS Bioscience, Inc. 6405 Mira Mesa Blvd., Suite 100 San Diego, CA 92121 USA. Tel: 1-858-202-1401 <a href="http://www.bpsbioscience.com">www.bpsbioscience.com</a></p>

For a complete list of components shipped with a product, please review the product datasheet, which is available on our website at [www.bpsbioscience.com](http://www.bpsbioscience.com). A safety datasheet for each component is available upon request.

## **Section 2. Hazard(s) Identification**

### **GHS Classification**

Acute Toxicity, Oral (Category 4)  
Acute Aquatic Toxicity (Category 3)  
Short-term (acute) Aquatic Toxicity (Category 2)  
Long-term (chronic) Aquatic Toxicity (Category 2)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)

**Signal Word:**            **Warning**

**Hazard Pictograms:**



**Hazard Statement(s):**

H302: Harmful if swallowed  
 H315: Causes skin irritation.  
 H318: Causes serious eye damage  
 H331: Toxic if inhaled  
 H412: Harmful to aquatic life with long lasting effect

**Precautionary statements**

**Prevention:**

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P264: Wash hands thoroughly after handling  
 P270: Do not eat, drink or smoke when using this product  
 P271: Use only outdoors or in a well-ventilated area.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P285: In case of inadequate ventilation wear respiratory protection

**Response:**

<b>IF ON SKIN</b>	P302 + P352: Wash with plenty of soap and water. P363: Wash contaminated clothing before reuse. P332 + P313 If skin irritation occurs: Get medical advice/ attention.
<b>IF SWALLOWED</b>	P301 + P310: Immediately call a POISON CENTER or doctor/physician. P330 - Rinse mouth.
<b>IF IN EYES</b>	P305 + P351 + P338: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>IF INHALED</b>	P304 + P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P330: Rinse mouth with copious amounts of water.

	P342 + P311: If experiencing respiratory symptoms: Immediately call a POISON CENTER or doctor/physician.
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**Storage:** Not Applicable

**Disposal:** P391: Collect spillage.  
P501: Dispose of contents/ container to an approved waste disposal plant

**Other Hazards:** Not Applicable

**HMIS**

<b>Health</b>	<b>2</b>
<b>Chronic Health Hazard</b>	*
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>

### **Section 3. Composition and Information on Ingredients**

**Chemical Characterization:**

Component	CAS No.	Common Name	EINECS-No	Weight-%
Thesit	9002-92-0	Dodecan-1-ol, ethoxylated	500-002-6	<=5%

This product is intended for research only and is not for direct administration into animals or humans.

### **Section 4. First Aid Measures**

**Description of First Aid measures**

**Skin contact:** Rinse with plenty of soap and water. Immediate medical attention is not required.

<b>Eye contact:</b>	Rinse cautiously with water for several minutes, including under the eyelids. Remove contact lenses, if present and easy to do. Rinse for at least 15 minutes. Get medical advice/attention if you feel unwell or are concerned.
<b>Ingestion:</b>	Rinse mouth with water. Immediately seek medical advice. Do not induce vomiting unless instructed by a physician.
<b>Inhalation:</b>	Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you experience respiratory symptoms.
<b>Notes to Physician:</b>	Treat symptomatically.

**Most important symptoms and effects, both acute and delayed:**

See hazard statements in Section 2 and toxicology statements in Section 11.

**Indication of any immediate medical attention and special treatment needed:**

None.

## **Section 5. Fire Fighting Measures**

<b>Conditions of flammability</b>	This product is not flammable.
<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Unsuitable extinguishing media</b>	No data available.
<b>Special hazards arising from the substance or mixture</b>	None known.
<b>Special protective equipment for firefighters</b>	Standard procedure for chemical fires.

## **Section 6. Accidental Release Measures**

<b>Personal precautions and protective equipment</b>	Ensure adequate ventilation, and avoid breathing vapors, mist or gas. Avoid dust/aerosol formation. Always wear recommended Personal Protective Equipment. See section 8 for more information.
<b>Emergency procedures</b>	No special emergency precautions required.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods and material for containment and cleaning up</b>	Soak up with inert absorbent material.
<b>Reference to other sections</b>	See section 8 for more information.

## **Section 7. Handling and Storage**

<b>Precautions for Safe Handling</b>	Use personal protective equipment as required. No special handling advices are necessary.
<b>Precautions for protection against explosions and fires</b>	Not applicable.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly sealed in a dry, cool and well-ventilated place. Recommended storage temperature: As described in technical data sheet.
<b>Specific end use(s)</b>	For research use or further manufacturing use only. Serum and blood proteins are not for direct administration into humans or animals.

## **Section 8. Exposure Controls, Personal Protection**

### **Control Parameters**

<b>Chemical Name</b>	<b>Occupational Exposure Limits (OELs)</b>	<b>Occupational Exposure Limits (OELs)</b>	<b>ACGIH OEL (8-hour TWA)</b>	<b>ACGIH OEL (STEL)</b>
Thesit	n/a	n/a	n/a	n/a

The lists that were valid during the creation of this document were used as basis.

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Exposure Controls**

#### **Personal Protective Equipment (PPE)**

##### **Respiratory protection**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standard, such as NIOSH (US) or CEN (EU).

##### **Hand protection**

Handle with suitable chemical resistant gloves. Gloves must be inspected prior to use. Use proper glove removal. Wash and dry hands.

##### **Eye protection**

Tight sealing safety goggles with side-shields conforming to NIOSH (US) or EN 166(EU).

##### **Body protection**

Wear suitable impervious protective clothing.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

##### **Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **Section 9. Physical and Chemical Properties**

### **Physical and chemical properties**

#### **Physical state**

Frozen liquid

<b>Odor</b>	No data available
<b>Odor threshold</b>	No data available
<b>pH</b>	6-8
<b>Molecular weight</b>	No data available
<b>Melting Point / melting range</b>	-10°C to 2°C
<b>Boiling point / boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor density</b>	No data available
<b>Relative density</b>	No data available
<b>Specific gravity</b>	No data available
<b>Solubility</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Other information</b>	No data available

## **Section 10. Stability and Reactivity**

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	No data available

<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	No data available
<b>Polymerization</b>	Hazardous polymerization does not occur under conditions of normal use.

## **Section 11. Toxicological Information**

### **Information on toxicological effects**

There is no evidence available indicating acute toxicity.

### **Acute toxicity**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LD50</b>	<b>Concentration / %</b>
Thesit	Acute toxicity estimate Oral = 1,100.1 mg/kg (Expert judgment)	n/a	n/a	<=5%

<b>Skin corrosion / irritation</b>	Causes skin irritation.
<b>Serious eye damage / irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	Causes skin irritation.
<b>Specific target organ toxicity (STOT) – single exposure</b>	No data available
<b>Specific target organ toxicity (STOT) – repeated exposure</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Principle Routes of Exposure</b>	Respiratory organs, mouth, skin, and eyes.
<b>Symptoms of exposure</b>	Nausea, Headache, Vomiting, Central nervous system depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Additional information</b>	No data available

## **Section 12. Ecological Information**

<b>Ecotoxicity</b>	Toxicity to fish semi-static test LC50 - Danio rerio; Leuciscus idus - 2.247 mg/l – 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 9.131 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Raphidocelis subcapitata (freshwater green alga) - 2.737 mg/l - 72 h (OECD Test Guideline 201)
<b>Persistence and degradability</b>	No information available
<b>Bioaccumulative potential</b>	No information available
<b>Mobility in soil</b>	No information available
<b>Results of PBT and vPvB assessment</b>	No information available
<b>Other adverse effects</b>	Do not dispose into surface water or sanitary sewer system.

## **Section 13. Disposal Considerations**

### **Disposal of Product and Containers**

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

## **Section 14. Transport Information**

### **IATA / ADR / DOT-US / IMDG**

Not regulated in the meaning of transport regulation

<b>UN Number</b>	Not Regulated
<b>UN proper shipping name</b>	Not Applicable

<b>Transport hazard class(es)</b>	Not Applicable
<b>Packing group</b>	Not Applicable
<b>Special Precautions for user</b>	Not Applicable
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code</b>	Not Applicable

**Regulation (EC) 1907/2006 (REACH)**

This product complies with or is exempted from the registration process in Regulation (EC) 1907/2006 (REACH);

- It is classified as non-hazardous in accordance with Regulation (EC) 1272/2008 (CLP);
- It is not regulated for transport under IATA/ADR/IMDG.

No hazardous labels should be applied to inner or outer packaging;  
The delivery of this Safety Data Sheet is not a mandatory requirement under REACH.

**Section 15. Regulatory Information**

Chemical Name	US TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Thesit	Not Listed	n/a	n/a

**TSCA 12(b) - Notices of Export**

Not applicable

**U.S. Federal Regulations**

**SARA 302 Components**

Not applicable

**SARA 313 Components**

Not applicable

**SARA 311/312 Hazards**

Not applicable

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs)**

Product does not contain HAPs.

**CERCLA**

Not Applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ): Not applicable  
 DOT Marine Pollutant: Not applicable  
 DOT Severe Marine Pollutant: Not applicable

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**U.S. State Regulations**

**California Prop 65**

Product does not contain chemicals listed under Proposition 65.

**US State Right To Know Regulations**

Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
n/a	n/a	n/a	n/a	n/a

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Chemical Name	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Thesit	9002-92-0	Listed	Not Listed	500-002-6	Not Listed	Listed	Listed	Listed	Listed	Not Listed

**Section 16. Other Information**

**Revision date:** December 13, 2024

**Contact information:**

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**References**

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLIdatabase: <https://www.chemadvisor.com/loli-database>

**Abbreviations and acronyms**

TWA - Time-Weighted Average  
OELs - Occupational Exposure Limits  
STEL - Short Term Exposure Limit  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
KECL - Korean Existing and Evaluated Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
NZIoC - New Zealand Inventory of Chemicals  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
CEPA - Canadian Environmental Protection Act  
EPA - Environmental Protection Agency  
OSHA - Occupational Safety and Health Administration of the US Department of Labor  
IATA - International Air Transport Association  
DOT - Department of Transportation  
IMDG - International Maritime Dangerous Goods  
ACGIH - American Conference of Governmental Industrial Hygienists  
NIOSH - National Institute for Occupational Safety and Health  
AIHA - American Industrial Hygiene Association  
HMIS - Department of Defense Hazardous Materials Information System  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer

This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed. All materials and mixtures may present unknown hazards and should be used with caution.

BPS Bioscience provides this information in good faith and is based on our present knowledge. This information shall not be taken as being all inclusive and is to be used only as a guide. This SDS does not constitute a warranty of any kind.

**End of Safety Data Sheet**