

**Safety Data Sheet**

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD), Mexico NOM-018-STPS-2015  
Issue date: 01 May 2026 Version: 01

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**SECTION 1: Identification**

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**1.1. Product identifier**

Product form : Mixture (Human Platelet Lysate [hPL])  
Name : nLiven PR<sup>®</sup>, T-Liven PR<sup>®</sup>, Stemulate<sup>®</sup>, Stemulate<sup>®</sup> CP

**1.2. Other means of identification**

Product codes: PL-PR-100, PL-PR-500, PL-SP-100, PL-SP-500, PL-NH-100, PL-NH-500, TL-PR-50C, TL-PR-100C, TL-PR-150C, PL-CP-SP-100, PL-CP-SP-500, PL-CP-NH-100, PL-CP-NH-500

**1.3. Recommended use of the chemical and restrictions on use**

Recommended use : Cell culture.  
Restrictions on use : Not for human or animal use.

**1.4. Supplier's details**

BioLife Solutions, Inc.  
3303 Monte Villa Parkway  
Suite 310  
Bothell, WA 98021 United States of America  
Tel.: +1 (425) 402-1400 (Monday - Friday, 8:00 am - 5:00 pm Pacific)  
Email: info@biolifesolutions.com

**1.5. Emergency phone number**

Emergency number : +1 (866) 424-6543 (Monday - Friday, 8:00 am - 5:00 pm Pacific)

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**SECTION 2: Hazard Identification**

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**2.1. Classification of the substance or mixture****GHS classification**

Not classified

**2.2. Label elements****GHS labeling**

Signal word (GHS) : N/A  
Hazard statements (GHS) : N/A  
Precautionary statements (GHS) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P403 - Store in a well-ventilated place.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Hazards associated with known or reasonably anticipated uses**

This product/mixture is composed of biological materials (platelets) obtained from human donors. All cell cultures have the potential to carry as yet unidentified adventitious agents. While this product is not believed to be toxic, hazardous, or dangerous, as with all human-derived biological products, absolute assurance that this product will not transmit infectious disease following accidental exposure (e.g., accidental needlesticks or exposure to cut/broken skin) cannot be achieved. Therefore, this material should be handled with Universal Precautions at Biosafety Level 2 (BSL-2), per the OSHA Blood Borne Pathogen regulation.

**2.4. Hazards not otherwise classified**

Other hazards not contributing to the classification : No data available.

**2.5. Unknown acute toxicity**

No additional information available.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

Name	Product identifier	%	GHS classification
Human Platelet Lysate (hPL)	N/A	100	Not classified

Chemical composition, CAS number(s), and/or exact concentrations of ingredients have been withheld as a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures general	: In the event of exposure to broken skin or needlestick, clean the site thoroughly with soap and water or a skin disinfectant. Notify supervisor. See a physician to monitor for clinical signs.
First-aid measures after inhalation	: Not a likely source of exposure. No specific first aid measures required. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Wash exposed area with soap and water or a skin disinfectant. If skin irritation occurs or persists: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects	: Toxicological properties have not been thoroughly investigated.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment	: Treat symptomatically.
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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
Unsuitable extinguishing media	: No data available.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: No data available. As an aqueous solution, it is not likely to be flammable.
Explosion hazard	: No data available. As an aqueous solution, it is not likely to be explosive.
Hazardous decomposition products in case of fire	: No data available.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area.

##### For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

Environmental precautions : Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Disinfect with facility approved disinfectant, such as bleach-containing, phenolic-based, or peroxide-based wipe/solution according to product label

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13, See Heading 8, Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes, and clothing. Wear personal protective equipment. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Additional hazards when processed : No data available.

#### 7.2. Conditions for safe storage, including incompatibilities

Technical measures : No data available.

Storage conditions : Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatible materials : No data available.

Storage temperature : -20 °C ± 10 °C

Packaging materials : Always store product in container of same material as original container. Do not re-use empty containers.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Human Platelet Lysate (hPL)

##### USA - AIHA - Occupational Exposure Limits

No data available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Perform risk assessment prior to use. Use properly maintained Class II Biosafety Cabinet (BSC), engineered local exhaust ventilation (LEV), and/or enclosure for procedures where aerosolization may occur such as opened transfers, pumping, and spraying. Solutions can be handled outside a containment system or without LEV during procedures with no potential for aerosolization. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

<b>Hand protection:</b>
Wear protective gloves. Nitrile. Neoprene. Butyl rubber.
<b>Eye protection:</b>
Chemical goggles or safety glasses. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Skin and body protection:</b>
Long sleeved protective clothing. Protective garments (coveralls, disposable coveralls, lab coats) are not to be worn in common areas (e.g., cafeterias) or out-of-doors. Employees must be trained in proper gowning and degowning practices.
<b>Respiratory protection:</b>
Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. In case of insufficient ventilation, wear suitable respiratory equipment. If needed, use an air-purifying respirator with organic vapor cartridges and a dust/mist prefilter.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solution
Color	: Yellow-rose
Odor	: No data available
Odor threshold	: No data available
pH	: 6.80-8.15
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: Soluble in water
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

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### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None under normal use.

## SECTION 11: Toxicological information

Likely routes of exposure : May be absorbed through inhalation, and skin and/or eye contact.

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects	: Toxicological properties have not been investigated.
Symptoms/effects after inhalation	: None under normal conditions.
Symptoms/effects after skin contact	: None under normal conditions.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: None under normal conditions.

## SECTION 12: Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified

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Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

Human Platelet Lysate (hPL)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Human Platelet Lysate (hPL)	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

Fluorinated greenhouse gases : None known.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Waste disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Product is regulated by OSHA under the Bloodborne Pathogens regulation 29 CFR 1910.1030. Consult your local or regional authorities for more information on specific waste disposal requirements.  
Additional information : Do not re-use empty containers. Handle empty containers with care because residual vapors are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

DOT NA No : Not regulated.  
UN-No. (TDG) : Not regulated.  
UN-No. (IMDG) : Not regulated.  
UN-No. (IATA) : Not regulated.

### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated.  
Proper Shipping Name (TDG) : Not regulated.  
Proper Shipping Name (IMDG) : Not regulated.  
Proper Shipping Name (IATA) : Not regulated.

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not regulated.

**TDG**  
Transport hazard class(es) (TDG) : Not regulated.

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### IMDG

Transport hazard class(es) (IMDG) : Not regulated.

### IATA

Transport hazard class(es) (IATA) : Not regulated.

### 14.4. Packing group

Packing group (DOT) : Not regulated.

Packing group (TDG) : Not regulated.

Packing group (IMDG) : Not regulated.

Packing group (IATA) : Not regulated.

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not regulated.

#### TDG

Not regulated.

#### IMDG

Not regulated.

#### IATA

Not regulated.

## SECTION 15: Regulatory information

### 15.1. Federal regulations

#### Human Platelet Lysate (hPL)

Product is regulated by OSHA under the Bloodborne Pathogens regulation 29 CFR 1910.1030. Consult your local or regional authorities for more information on specific waste disposal requirements.

### 15.2. International regulations

#### CANADA

#### Human Platelet Lysate (hPL)

No data available

#### EU-Regulations

#### Human Platelet Lysate (hPL)

No data available

#### National regulations

#### Human Platelet Lysate (hPL)

No data available

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### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

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### SECTION 16: Other information

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Issue date

: 3/19/2026

Other information

: Internal Company test data. Manufacturer Information.

Full text of H-phrases	
-	-

  

Abbreviations and acronyms	
-	-

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

## Signature Manifest

**Document Number:** SDS-0032

**Revision:** 01

**Title:** nLiven PR®, T-Liven PR®, Stemulate®, Stemulate® CP Safety Data Sheet (NA)

**Effective Date:** 01 May 2026

All dates and times are in US/Pacific.

### nLiven PR®, T-Liven PR®, Stemulate®, Stemulate® CP Safety Data Sheet (NA)

#### Collaboration Step

Name/Signature	Title	Date	Meaning/Reason
Misti Long (MLONG)	QA Specialist I	22 Apr 2026, 04:51:44 PM	Complete & Quit
Michele Haler (MHALER)	Quality Engineer	24 Apr 2026, 10:29:34 AM	Complete

#### Department Approval

Name/Signature	Title	Date	Meaning/Reason
Matthew Selley (MSELLEY)	Director Aseptic Form & Fill	01 May 2026, 11:40:20 AM	Approved

#### Quality Approval

Name/Signature	Title	Date	Meaning/Reason
Brittany Bentcover (BBENTCOVER)	Director of Quality - Media	28 Apr 2026, 03:58:08 PM	Approved

#### Training Approval

Name/Signature	Title	Date	Meaning/Reason
Misti Long (MLONG)	QA Specialist I	01 May 2026, 12:21:45 PM	Approved

#### Document Control Approval

Name/Signature	Title	Date	Meaning/Reason
Misti Long (MLONG)	QA Specialist I	01 May 2026, 12:22:13 PM	Approved

#### Notification

Name/Signature	Title	Date	Meaning/Reason
Michele Haler (MHALER)	Quality Engineer	01 May 2026, 12:22:13 PM	Email Sent