

**PrymaLab****SAFETY DATA SHEET**

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DOCUMENT NUMBER

PL-SDS-157

REVISION

1.0

REVISION DATE

October 3, 2026

FORMAT

GHS / OSHA HCS 2012**SAFETY DATA SHEET · LYOPHILIZED POWDER, VIAL****SUPER Human Blend (eight free amino acids)**

Lyophilized powder, vial · covers 1 catalogue item · mixture classification

**NOT CLASSIFIED**

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS. No pictogram, signal word or hazard statement is required. Handle as a pharmacologically active laboratory chemical.

For laboratory research use only. Not for human or veterinary use; not a drug, food, dietary supplement, cosmetic or household product. Read this sheet before handling and keep it with the material.

1 IDENTIFICATION

Product identifier	SUPER Human Blend (eight free amino acids) — lyophilized powder, vial
Catalogue items covered	Pryma SUPER Human Blend PL - SUPERHUMAN - BLD
Synonyms / chemical names	L-Carnitine: Levocarnitine (inner salt); small molecule, not a peptide (CAS 541-15-1) L-Citrulline: L-Citrulline (CAS 372-75-8) L-Arginine: L-Arginine (CAS 74-79-3) L-Ornithine: L-Ornithine (as hydrochloride) (CAS 70-26-8) L-Lysine: L-Lysine (as hydrochloride) (CAS 56-87-1) L-Proline: L-Proline (CAS 147-85-3) Taurine: Taurine (CAS 107-35-7) L-Glutamine: L-Glutamine (CAS 56-85-9)
Recommended use	Laboratory research chemical for in-vitro and animal-model studies by trained personnel.
Restrictions on use	Not for human or veterinary use, diagnosis or therapy. Not for use as a drug, food, dietary supplement, cosmetic or in household products. Not for resale to the public for personal use.
Supplier	PrymaLab LLC (PrymaLab Analytical), 3705 Music Branch Rd, Ashland, KY 41102, United States · Tel. +1 (606) 465-9063 · michael@prymalab.net · https://prymalab.net
Emergency telephone	Poison Help (US, 24 h): 1-800-222-1222 · Supplier (business hours, US Eastern): +1 (606) 465-9063

2 HAZARD(S) IDENTIFICATION**CLASSIFICATION OF THE MIXTURE****Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS Rev. 7.**

None of the ingredients is present at or above the generic concentration limits that would classify the mixture (Section 3 lists the ingredient classifications and concentrations).

LABEL ELEMENTS

No pictogram, signal word, hazard statement or precautionary statement is required. Recommended precautions: wear gloves, a laboratory coat and eye protection; avoid generating dust or aerosols; wash hands after handling; do not eat, drink or smoke in the laboratory.

HAZARDS NOT OTHERWISE CLASSIFIED / OTHER HAZARDS

- Pharmacologically active material. Accidental injection, ingestion or absorption may produce systemic effects consistent with the compound's mechanism of action; see Section 11.
- 12% of the mixture consists of ingredient(s) of unknown acute oral, dermal and inhalation toxicity.
- Finely divided organic powder may form combustible dust concentrations in air if dispersed in bulk (not expected at laboratory scale).

3 COMPOSITION / INFORMATION ON INGREDIENTS

Lyophilized (freeze-dried) powder or cake in a sealed glass vial with a rubber stopper and aluminium crimp cap.

INGREDIENT	CAS NO.	FORMULA	CONCENTRATION	QUANTITY	INGREDIENT CLASSIFICATION (GHS)
L-Carnitine Levocarnitine (inner salt); small molecule, not a peptide	541-15-1	C ₇ H ₁₅ NO ₃	12.5%	equal parts of a 790 mg blend	not classified
L-Citrulline L-Citrulline	372-75-8	C ₆ H ₁₃ N ₃ O ₃	12.5%	equal parts of a 790 mg blend	not classified

INGREDIENT	CAS NO.	FORMULA	CONCENTRATION	QUANTITY	INGREDIENT CLASSIFICATION (GHS)
L-Arginine L-Arginine	74-79-3	C ₆ H ₁₄ N ₄ O ₂	12.5%	equal parts of a 790 mg blend	not classified
L-Ornithine L-Ornithine (as hydrochloride)	70-26-8	C ₅ H ₁₂ N ₂ O ₂	12.5%	equal parts of a 790 mg blend	not classified
L-Lysine L-Lysine (as hydrochloride)	56-87-1	C ₆ H ₁₄ N ₂ O ₂	12.5%	equal parts of a 790 mg blend	not classified
L-Proline L-Proline	147-85-3	C ₅ H ₉ NO ₂	12.5%	equal parts of a 790 mg blend	not classified
Taurine Taurine	107-35-7	C ₂ H ₇ NO ₃ S	12.5%	equal parts of a 790 mg blend	not classified
L-Glutamine L-Glutamine	56-85-9	C ₅ H ₁₀ N ₂ O ₃	12.5%	equal parts of a 790 mg blend	not classified

Peptides are supplied as the acetate or trifluoroacetate salt unless stated otherwise; the counter-ion and residual water make up the balance of a lyophilized product. Concentration limits used for mixture classification follow OSHA HCS 2012 Appendix A. The split of the 790 mg total between the eight amino acids is not disclosed; all components are unclassified.

4 FIRST-AID MEASURES

Inhalation	Move the person to fresh air and keep comfortable for breathing. If breathing is difficult or symptoms persist, call a POISON CENTER or doctor.
Skin contact	Take off contaminated clothing. Wash the skin with plenty of soap and water. If irritation or a rash develops, get medical advice.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do; continue rinsing. If eye irritation persists, get medical advice.
Ingestion	Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor if you feel unwell.
Most important symptoms and effects	No specific symptoms are known. pharmacologically active material: systemic effects consistent with its mechanism of action are possible after accidental injection, ingestion or absorption.
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to the attending physician. No specific antidote is known.

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide, dry chemical or alcohol-resistant foam. Use measures appropriate to the surrounding fire.
Unsuitable extinguishing media	None known. Do not use a high-pressure water jet on powders (dust dispersion).
Specific hazards	Combustible organic solid; finely divided powder may form dust clouds. Not flammable in the quantities supplied. Thermal decomposition may release carbon monoxide, carbon dioxide and nitrogen oxides, and sulfur oxides.
Protective equipment for fire-fighters	Self-contained breathing apparatus and full protective clothing. Prevent run-off from entering drains.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear the protective equipment in Section 8. Keep unprotected people away. Avoid dust formation and inhalation of dust.
Environmental precautions	Do not allow material to reach drains, surface water or soil. Quantities supplied are small; collect for disposal.
Methods for cleaning up	Avoid dust formation. Dampen spilled powder with water, wipe up with absorbent material, place in a sealed container for disposal and clean the area with water and detergent. Decontaminate surfaces with 70 % alcohol or detergent and water.

7 HANDLING AND STORAGE

Precautions for safe handling	Open vials only in a clean area. Avoid generating or inhaling dust; weigh or reconstitute inside a ventilated enclosure when the full contents are handled as a dry powder. Reconstitute by adding diluent slowly to the vial wall; do not shake. Wash hands after handling. Do not eat, drink or smoke in the handling area.
Conditions for safe storage	Store the sealed vial at the temperature stated in Section 9 (typically –20 °C for peptides, 2–8 °C for proteins), desiccated and protected from light. Allow the vial to reach room temperature before opening to avoid condensation. Reconstituted solutions: 2–8 °C, protected from light; use within the period established by your laboratory. Keep the container tightly closed and labelled, out of reach of unauthorised persons.
Storage temperature	–20 °C (sealed vial), desiccated and protected from light; 2–8 °C acceptable for short periods
Incompatible materials	Strong oxidising agents, strong acids and bases.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	No occupational exposure limits (OSHA PEL, ACGIH TLV, NIOSH REL) have been established for any ingredient.
Engineering controls	Good general laboratory ventilation. Weigh or manipulate dry powder in a ventilated enclosure (powder hood, biosafety cabinet or fume hood). An eyewash station should be available.
Eye / face protection	Safety glasses with side shields (ANSI Z87.1 / EN 166).
Skin protection	Nitrile gloves (inspect before use; change after contamination) and a laboratory coat.
Respiratory protection	Not normally required with the engineering controls above. Where dust cannot be controlled, use a NIOSH-approved N95 (or P2) particulate respirator.
Hygiene measures	Wash hands after handling and before breaks. Remove contaminated clothing. Do not pipette by mouth.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state / appearance	Solid. White to off-white lyophilized powder or cake.
Odour / odour threshold	No information available
pH	Not applicable (solid); aqueous solutions typically pH 4–7
Melting / freezing point	197–212 °C (Spectrum; Sigma lit.; ChemicalBook)
Boiling point	No information available (287.5 °C rough estimate, ChemicalBook)
Flash point / flammability	Not applicable (non-flammable solid); combustible organic material
Vapour pressure / density	Negligible (solid)
Relative density	No data available (bulk density of lyophilized cake is low)
Solubility	Soluble in water, ca. 100 g/L at 20 °C (ChemicalBook); insoluble in acetone, benzene, ether (Spectrum)
Partition coefficient (log P_{ow})	No data available
Auto-ignition / decomposition temperature	No data available; peptides decompose above about 200 °C
Molecular formula / mass	L-Carnitine: C ₇ H ₁₅ NO ₃ , 161.2 g/mol L-Citrulline: C ₆ H ₁₃ N ₃ O ₃ , 175.2 g/mol L-Arginine: C ₆ H ₁₄ N ₄ O ₂ , 174.2 g/mol L-Ornithine: C ₅ H ₁₂ N ₂ O ₂ , 132.2 g/mol L-Lysine: C ₆ H ₁₄ N ₂ O ₂ , 146.2 g/mol L-Proline: C ₅ H ₉ NO ₂ , 115.1 g/mol Taurine: C ₂ H ₇ NO ₃ S, 125.1 g/mol L-Glutamine: C ₅ H ₁₀ N ₂ O ₃ , 146.1 g/mol
Other information	Inner salt (zwitterion), MW 161.20; Sigma storage class 11 (combustible solids); flash point not applicable; TCI: store under inert gas, hygroscopic

10 STABILITY AND REACTIVITY

Reactivity	No hazardous reactivity under normal laboratory conditions.
Chemical stability	Stable when stored as recommended (Section 7). Lyophilized peptides are hygroscopic and degrade faster once moist or reconstituted.
Possibility of hazardous reactions	None known.
Conditions to avoid	Heat, direct light, moisture, repeated freeze–thaw cycles.
Incompatible materials	Strong oxidising agents, strong acids and bases.
Hazardous decomposition products	Carbon oxides and nitrogen oxides, sulfur oxides on combustion. No hazardous decomposition under recommended storage.

11 TOXICOLOGICAL INFORMATION

Likely routes of exposure: Inhalation of dust, skin and eye contact when the vial is opened or the powder is weighed; ingestion through contaminated hands; accidental injection when reconstituted solutions are drawn into syringes.

Symptoms related to the physical, chemical and toxicological characteristics: No specific symptoms are known. pharmacologically active material: systemic effects consistent with its mechanism of action are possible after accidental injection, ingestion or absorption.

L-Carnitine Levocarnitine (inner salt); small molecule, not a peptide · CAS 541-15-1**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral, rat: > 5000 mg/kg; LD50 oral, rabbit: > 5000 mg/kg (ChemicalBook/Sigma-type); LD50 oral, mouse: 19.2 g/kg (Spectrum)
Acute toxicity, dermal	No information available
Acute toxicity, inhalation	No information available
Skin corrosion/irritation	Causes skin irritation (Spectrum, Cat. 2); no data / not classified (Sigma-type)
Serious eye damage/irritation	Causes eye irritation (Spectrum, Cat. 2B); no data / not classified (Sigma-type)
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	Not considered carcinogenic (Spectrum); no IARC-identified carcinogen at $\geq 0.1\%$ (ChemicalBook); not listed by NTP, OSHA, Prop 65
Reproductive toxicity	No data available
STOT, single exposure	Irritating to respiratory system (Spectrum, Cat. 3); not classified (Sigma-type)
STOT, repeated exposure	No data available
Aspiration hazard	No data available

- Spectrum classifies the substance as a skin, eye and respiratory irritant; Sigma-Aldrich does not (oral LD50 rat > 5,000 mg/kg). Sigma-Aldrich is followed.

L-Citrulline L-Citrulline · CAS 372-75-8**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	No data available (SDS); amino acid of very low toxicity
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available; not listed by IARC, NTP, OSHA
Reproductive toxicity	No data available
STOT, single exposure	No data available
STOT, repeated exposure	No data available
Aspiration hazard	No data available

L-Arginine L-Arginine · CAS 74-79-3**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral rat > 5,110 mg/kg (Sigma)
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	No skin irritation (rabbit, 4 h, OECD 404)
Serious eye damage/irritation	No eye irritation (rabbit, OECD 405)
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Negative in bacterial and mammalian assays
Carcinogenicity	Not listed by IARC, NTP, OSHA
Reproductive toxicity	No data available
STOT, single exposure	No data available
STOT, repeated exposure	No data available
Aspiration hazard	No data available

L-Ornithine L-Ornithine (as hydrochloride) · CAS 70-26-8**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral rat > 10,000 mg/kg (Duchefa Biochemie SDS, L-ornithine hydrochloride); NeoFroxx: 'shall not be classified' for acute toxicity
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	Not classified / shall not be classified (NeoFroxx)
Serious eye damage/irritation	Not classified / shall not be classified (NeoFroxx)
Respiratory or skin sensitisation	Not classified (NeoFroxx)
Germ cell mutagenicity	Not classified (NeoFroxx)
Carcinogenicity	Not classified; not listed by IARC, NTP, OSHA
Reproductive toxicity	Not classified (NeoFroxx)
STOT, single exposure	Not classified
STOT, repeated exposure	Not classified
Aspiration hazard	Not classified

L-Lysine L-Lysine (as hydrochloride) · CAS 56-87-1**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral, rat: 10,000 mg/kg (L-lysine monohydrochloride; Fisher, Spectrum)
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	No data available / may cause mild irritation (Fisher, Spectrum) - not classified
Serious eye damage/irritation	No data available / may cause mild irritation (Fisher, Spectrum) - not classified
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	Not listed by ACGIH, IARC, NTP, OSHA or CA Prop 65
Reproductive toxicity	No data available
STOT, single exposure	No information available (dust may irritate respiratory tract)
STOT, repeated exposure	No information available
Aspiration hazard	No data available

L-Proline L-Proline · CAS 147-85-3**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral rat > 5,110 mg/kg (Sigma)
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Ames test negative
Carcinogenicity	Not listed by IARC, NTP, OSHA
Reproductive toxicity	No data available
STOT, single exposure	No data available
STOT, repeated exposure	Repeated-dose oral rat NOAEL 2,772.9 mg/kg/day (males), 3,009.3 mg/kg/day (females)
Aspiration hazard	No data available

Taurine Taurine · CAS 107-35-7**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral rat > 5,000 mg/kg; LD50 oral mouse > 7,000 mg/kg (Spectrum, Acros)
Acute toxicity, dermal	No data available
Acute toxicity, inhalation	No data available
Skin corrosion/irritation	Not classified (Sigma); Spectrum/Acros: causes skin irritation (Cat. 2 / R38)
Serious eye damage/irritation	Not classified (Sigma); Spectrum/Acros: causes serious eye irritation (Cat. 2A / R36)
Respiratory or skin sensitisation	No information available
Germ cell mutagenicity	No information available (Spectrum); Acros (2008) notes 'mutagenic effects have occurred in experimental animals' without citation
Carcinogenicity	Not considered carcinogenic; not listed by ACGIH, IARC, NTP, OSHA or California Prop 65
Reproductive toxicity	No data available (Acros 2008 notes unspecified adverse reproductive effects in experimental animals - uncited; taurine is a conditionally essential nutrient and GRAS)
STOT, single exposure	Not classified (Sigma); Spectrum: Category 3 respiratory tract irritation (H335)
STOT, repeated exposure	No information available
Aspiration hazard	No data available

- Sigma-Aldrich: not classified; Spectrum: irritant. Sigma-Aldrich is followed.

L-Glutamine L-Glutamine · CAS 56-85-9**Substance classification adopted:** not classified

Not classified as hazardous under OSHA HCS 2012 (29 CFR 1910.1200) or UN GHS, on the basis of the supplier safety data sheets consulted.

Acute toxicity, oral	LD50 oral rat > 16,000 mg/kg (Sigma G3126); LD50 oral rat 7,500 mg/kg (BioSpectra)
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Acute toxicity, dermal	No data available
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Acute toxicity, inhalation	No data available
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Skin corrosion/irritation	No skin irritation (rabbit) (Sigma)
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Serious eye damage/irritation	No eye irritation (rabbit) (Sigma)
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Respiratory or skin sensitisation	No data available
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Germ cell mutagenicity	Negative in mammalian and bacterial assays (Sigma)
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Carcinogenicity	Not identified as carcinogen by IARC, NTP or OSHA
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Reproductive toxicity	No data available
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STOT, single exposure	No data available
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STOT, repeated exposure	No data available
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Aspiration hazard	No data available
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Mixture classification: the ingredient classifications above were combined using the additivity and cut-off rules of OSHA HCS 2012 Appendix A (acute toxicity estimate calculation; 10% cut-off for skin and eye irritation; 0.1% for carcinogenicity, reproductive toxicity and respiratory sensitisation; 1.0% for skin sensitisation and STOT; 20% for respiratory tract irritation).

Carcinogen listings: no ingredient is listed as a carcinogen by IARC, NTP or OSHA.

12 ECOLOGICAL INFORMATION

L-Carnitine: No ecotoxicity, persistence, bioaccumulation or mobility data available (Spectrum, ChemicalBook). Expected readily biodegradable.

L-Citrulline: No data available for ecotoxicity, persistence, bioaccumulation or mobility (SDS). Amino acid - expected readily biodegradable, low aquatic toxicity.

L-Arginine: No ecotoxicity, persistence, bioaccumulation or soil-mobility data available (Sigma). Readily biodegradable amino acid expected.

L-Ornithine: NeoFroxx: shall not be classified as hazardous to the aquatic environment; readily biodegradable. No ecotoxicity test data.

L-Lysine: No ecotoxicity data available (Spectrum). Fisher: do not empty into drains. Amino acid - readily biodegradable in principle.

L-Proline: Daphnia magna 48 h EC50 > 100 mg/L; readily biodegradable; not PBT/vPvB (Sigma).

Taurine: No ecotoxicity data available (Spectrum, Acros). Natural metabolite; readily biodegradable; not bioaccumulative.

L-Glutamine: No ecotoxicity, persistence, bioaccumulation or mobility data available (Sigma). Natural amino acid; readily biodegradable, not expected to bioaccumulate.

Persistence and degradability: peptides and amino acids are expected to biodegrade readily; benzyl alcohol is readily biodegradable (92–96% in 14 days, OECD 301C). Bioaccumulative potential: low (hydrophilic, log P_{ow} < 3 where known). Mobility in soil: water-soluble; mobile. PBT/vPvB: not expected to meet the criteria. Other adverse effects: none known. Do not release concentrated material to the environment.

13 DISPOSAL CONSIDERATIONS

Dispose of unused material and contaminated packaging through a licensed chemical-waste contractor in accordance with federal (40 CFR 261), state and local regulations; the material is not a listed RCRA hazardous waste. Do not pour down the drain. Small residues may be inactivated with 10% bleach for 30 minutes before disposal where local rules allow. Empty glass vials and cartridges: remove labels or deface them before recycling or disposal.

14 TRANSPORT INFORMATION**DOT (49 CFR) / IATA / IMDG**

Not regulated as a dangerous good for transport by road (DOT 49 CFR), air (IATA/ICAO) or sea (IMDG). Not a marine pollutant. Ship refrigerated or frozen as required by Section 7; the coolant (dry ice, UN 1845) is regulated when used.

UN number / proper shipping name / class / packing group

Not applicable.

15 REGULATORY INFORMATION**OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not classified as hazardous. This sheet is provided voluntarily.

TSCA (Toxic Substances Control Act)	L-Carnitine: not listed on the TSCA Inventory (supplied for research and development; 40 CFR 720.36); L-Citrulline: listed on the TSCA Inventory; L-Arginine: listed on the TSCA Inventory; L-Ornithine: listed on the TSCA Inventory; L-Lysine: listed on the TSCA Inventory; L-Proline: listed on the TSCA Inventory; Taurine: listed on the TSCA Inventory; L-Glutamine: listed on the TSCA Inventory.
SARA Title III (Sections 302, 311/312, 313), CERCLA	No ingredient is listed as an extremely hazardous substance (Section 302), a Section 313 toxic chemical or a CERCLA hazardous substance.
California Proposition 65	No ingredient is listed as known to the State of California to cause cancer or reproductive toxicity.
State right-to-know lists	No ingredient is listed.
US FDA	Research chemical. Not an FDA-approved drug product; not evaluated for safety or efficacy in humans or animals; not GRAS; not a dietary ingredient. Sold for laboratory research use only.
US DEA controlled substances	No ingredient is scheduled under the Controlled Substances Act at the revision date.
International	The classification in Section 2 applies equally under EU CLP (Regulation (EC) 1272/2008) and other UN GHS implementations; peptides of this kind are generally not registered under REACH (research and development use).

16 OTHER INFORMATION

Revision	Revision 1.0, October 3, 2026 — first issue. Prepared by PrymaLab Analytical, PrymaLab LLC.
Classification method	Calculated from the ingredient classifications (Section 3) with the OSHA HCS 2012 Appendix A mixture rules; ingredient classifications were adopted from the supplier safety data sheets listed below with the PrymaLab policy adjustments stated in Section 11. Policy: Cayman Chemical is the primary reference for research peptides and novel small molecules and Sigma-Aldrich/Merck for commodity chemicals; a more conservative manufacturer or ECHA classification is adopted where internally consistent; SARMs, GLP-1 receptor agonists, GnRH analogues and gonadotropins carry reproductive-toxicity classifications by expert judgement. The split of the 790 mg total between the eight amino acids is not disclosed; all components are unclassified.
Sources consulted	Spectrum Chemical; ChemicalBook; Sigma-Aldrich; TCI; ChemicalBook-hosted SDS; Sigma-Aldrich / Merck; NeoFroxx GmbH; Duchefa Biochemie; Fisher Scientific; Acros Organics / Fisher; BioSpectra.
Abbreviations	ATE acute toxicity estimate · CAS Chemical Abstracts Service · GHS Globally Harmonized System · HCS Hazard Communication Standard · IARC International Agency for Research on Cancer · LD50/LC50 median lethal dose/concentration · NTP National Toxicology Program · OEL occupational exposure limit · PEL permissible exposure limit · STOT specific target organ toxicity · TLV threshold limit value · WADA World Anti-Doping Agency.

The information in this safety data sheet is believed to be accurate as of the revision date and is given in good faith for the guidance of trained laboratory personnel handling the material described. It relates only to the specific material designated and may not be valid for the material used in combination with other substances or in any process. No warranty, express or implied, is made as to its completeness; users must make their own determination of suitability and comply with all applicable laws. PrymaLab products are sold for laboratory research use only and are not intended for human or veterinary use. © 2026 PrymaLab LLC.