**PrymaLab**
SAFETY DATA SHEET
PrymaLab LLC · 3705 Music Branch Rd, Ashland, KY 41102, United States
+1 (606) 465-9063 · michael@prymalab.net · prymalab.net

DOCUMENT NUMBER
**PL-SDS-130**

| REVISION | REVISION DATE | FORMAT |
|---|---|---|
| 1.0 | October 3, 2026 | GHS / OSHA HCS 2012 |

SAFETY DATA SHEET · SOLUTION, METERED NASAL SPRAY

# Pinealon

**Solution, metered nasal spray** · 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** | **Pinealon — solution, metered nasal spray** |
| **Catalogue items covered** | Pinealon 10mg Nasal Spray `PL-PINEALON-10MG-NS` |
| **Synonyms / chemical names** | **Pinealon**: Glu-Asp-Arg (EDR) (CAS 175175-23-2) |
| **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.
- Contains benzyl alcohol (0.9% w/v) as preservative. Below the concentration limits for classification; may still cause a mild allergic reaction in benzyl-alcohol-sensitised individuals. Preserved solutions must not be used in neonates.
- 0.1% of the mixture consists of ingredient(s) of unknown acute oral, dermal and inhalation toxicity.

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

Sterile aqueous solution in bacteriostatic water (0.9% benzyl alcohol), supplied in a metered-dose nasal spray bottle.

| INGREDIENT | CAS NO. | FORMULA | CONCENTRATION | QUANTITY | INGREDIENT CLASSIFICATION (GHS) |
|---|---|---|---|---|---|
| **Pinealon**<br>Glu-Asp-Arg (EDR) | 175175-23-2 | $C_{15}H_{26}N_6O_8$ | ≤ 0.1% w/v | 10 mg per bottle | not classified |
| **Benzyl alcohol (preservative)**<br>Benzyl alcohol, antimicrobial preservative (0.9% w/v in bacteriostatic water) | 100-51-6 | $C_7H_8O$ | 0.9% w/v | — | Acute tox. oral 4 · H302<br>Acute tox. inhalation 4 · H332<br>Eye irrit. 2A · H319 Skin sens. 1B · H317 |
| **Water for injection**<br>Water for injection | 7732-18-5 | $H_2O$ | balance to 100% | — | 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. Concentrations are calculated for a nominal 10 mL bottle fill, the smallest fill PrymaLab supplies; larger fills give lower concentrations and the same or a less severe classification.

## 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. |
| **Accidental injection** | For an accidental needle-stick: wash the site with soap and water, do not squeeze, cover with a dressing and seek medical advice; report the incident according to your laboratory's sharps procedure. |
| **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** | Aqueous solution containing 0.9% benzyl alcohol; not flammable and does not support combustion. Thermal decomposition may release carbon monoxide, carbon dioxide and nitrogen 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 contact with eyes and skin; beware of broken glass. |
| **Environmental precautions** | Do not allow material to reach drains, surface water or soil. Quantities supplied are small; collect for disposal. |
| **Methods for cleaning up** | Absorb small spills with paper towel or an inert absorbent, 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** | Avoid spraying toward the eyes or face. Do not share devices. Wipe the nozzle after use and keep the cap on. Wash hands after handling. Do not eat, drink or smoke in the handling area. |
| **Conditions for safe storage** | Store at 2–8 °C, protected from light; do not freeze. Keep upright and capped. Keep the container tightly closed and labelled, out of reach of unauthorised persons. |
| **Storage temperature** | 2–8 °C, protected from light; do not freeze |
| **Incompatible materials** | Strong oxidising agents, strong acids and bases. |

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---|---|
| **Occupational exposure limits** | Benzyl alcohol: no OSHA PEL, ACGIH TLV or NIOSH REL; AIHA WEEL 10 ppm (44 mg/m$^3$) 8-h TWA. Present at 0.9%.<br>No occupational exposure limits have been established for the active ingredient(s). |
| **Engineering controls** | Good general laboratory ventilation. Actuate the spray device away from the face and other people. An eyewash station should be available. |
| **Eye / face protection** | Safety glasses with side shields (ANSI Z87.1 / EN 166); goggles where splashing is possible. |
| **Skin protection** | Nitrile gloves (inspect before use; change after contamination) and a laboratory coat. |
| **Respiratory protection** | Not normally required with the engineering controls above. Not required for the solution under normal laboratory use. |
| **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** | Liquid. Clear, colourless to faintly yellow aqueous solution. |
| **Odour / odour threshold** | Odourless to faint aromatic odour (benzyl alcohol) |
| **pH** | Approximately 4.5–7.0 (bacteriostatic water, USP) unless adjusted |
| **Melting / freezing point** | About 0 °C (aqueous solution) |
| **Boiling point** | About 100 °C (aqueous solution) |
| **Flash point / flammability** | Not flammable; aqueous solution (benzyl alcohol flash point 93–101 °C, present at 0.9%) |
| **Vapour pressure / density** | As water (about 2.3 kPa at 20 °C) |
| **Relative density** | About 1.00–1.02 g/mL at 20 °C |
| **Solubility** | Aqueous solution; miscible with water |
| **Partition coefficient (log $P_{ow}$)** | No data available |
| **Auto-ignition / decomposition temperature** | Not applicable (aqueous solution); dissolved peptide degrades on heating |
| **Molecular formula / mass** | Pinealon: $C_{15}H_{26}N_6O_8$, 418.4 g/mol |

## 10 STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | No hazardous reactivity under normal laboratory conditions. |
| **Chemical stability** | Stable when stored as recommended (Section 7). Solutions degrade over time; discard discoloured or cloudy solutions. |
| **Possibility of hazardous reactions** | None known. |
| **Conditions to avoid** | Heat, direct light, moisture, freezing, repeated freeze–thaw cycles. |
| **Incompatible materials** | Strong oxidising agents, strong acids and bases. |
| **Hazardous decomposition products** | Carbon oxides and nitrogen oxides on combustion. No hazardous decomposition under recommended storage. |

## 11 TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Inhalation of the aerosol and absorption through the nasal mucosa are the intended laboratory routes; eye contact from mis-directed spray; skin contact.

**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.

**Pinealon** Glu-Asp-Arg (EDR) · CAS 175175-23-2

**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 (Selleck: no acute toxicity data available) |
| **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; not Prop 65 |
| **Reproductive toxicity** | No data available |
| **STOT, single exposure** | No data available |
| **STOT, repeated exposure** | No data available |
| **Aspiration hazard** | No data available |

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

**Pinealon:** No data available (Selleck). Comparable Cayman peptide SDSs: water hazard class 1 (self-assessment).

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)** | Pinealon: not listed on the TSCA Inventory (supplied for research and development; 40 CFR 720.36); Benzyl alcohol: listed on the TSCA Inventory; Water: 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** | Benzyl alcohol is listed on the Massachusetts, New Jersey and Pennsylvania right-to-know lists. |
| **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. Concentrations are calculated for a nominal 10 mL bottle fill, the smallest fill PrymaLab supplies; larger fills give lower concentrations and the same or a less severe classification. |
| **Sources consulted** | Selleck Chemicals; Selleck Chemicals product page; ChemicalBook; Sigma-Aldrich; Sigma-Aldrich / Supelco; MilliporeSigma; Sigma-Aldrich BVBA; Aldrich; American Regent - Sterile Water for Injection, USP; Hospira/Pfizer - Bacteriostatic Water for Injection. |
| **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.