# SAFETY DATA SHEET

SDS#: 1516

Revision Date: 04/15/24

## Section 1 - Identification of the substance/mixture and of the supplier

**Trade Name:** Pennamin® Si

**Product Code:** PennSi

**Chemical Name:** Amino acid blend containing 10% N and 4% Si

**Application/Uses:** Fertilizing Compound

**Restrictions:** Do not mix with phosphates

**Distributor Information:** **PERFORMANCE NUTRITION -** A Division of LidoChem LLC 20 Village Court, Hazlet, NJ 07730
Phone: (732) 888 8000 • Fax: (732) 264 2751 • email: info@lidochem.com

**Emergency Phone Number:** **CHEMTREC - Day or Night - at 800 424 9300**

## Section 2 - Hazard Identification

### Classification of the substance or mixture (GHS-US)

Not Classified

### Precautionary Statements:

**Precautionary Statements - Prevention, Response, Storage, Disposal**

None

### Physical Hazards

None

### Hazard Statements

None

### GHS Label elements

**Hazard Pictograms**

**Signal Word**

**None**

### HNOC - Hazards Not Otherwise Classified

None

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## Section 3 - Composition/Information on Ingredients

**Chemical Identity:** **10% N, 4% Si**

| CAS#: | Common Name/Synonyms: | % by Wt. |
|---|---|---|
| Mixture | L-Amino Acids | 64-65% |
| | | |
| | | |
| | | |

## Section 4 - First Aid Measures

### Description of first aid measures

**General Advice:**

Remove contaminated clothing and shoes. Seek medical advice immediately and show safety data sheet or product label to the doctor, if possible.

**If Inhaled:**

Remove person from contaminated area to fresh air. If not breathing, give artificial respiration. Seek medical attention if irritation or dizziness occurs.

**In Case Of Skin Contact:**

Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

**In Case Of Eye Contact:**

Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

**If Swallowed:**

Seek medical attention or call a poison control center immediately. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

No additional information available.

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

No additional information available.

## Section 5 - Fire-fighting Measures

### Extinguishing media:

Suitable extinguishing media: water spray, dry powder, carbon dioxide, foam.

### Specific Hazards arising from the substance or mixture:

Carbon oxides, nitrogen oxides may form.

### Advice for firefighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

## Section 6 - Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

As outlined in section 8, wear appropriate respiratory protection. Avoid breathing dust, spray, vapours or mist. Use personal protective clothing. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions:

Do not allow spilled product to enter water supplies.

### Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Avoid breathing dust.

## Section 7- Handling and Storage

### Precautions for safe handling:

Do not eat, drink or smoke when using this product. Wash hands and other exposed areas thoroughly after handling. Provide adequate ventilation. Protect packages against physical damage. Reseal containers immediately after use. Immediately remove and dispose of any spilled material.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well ventilated area.

## Section 8 - Exposure Control / Personal Protection

### Control parameters:

| Chemical Identity: | CAS #: | ACGIH Threshold Limit Values | | OSHA PEL | | NIOSH REL | |
|---|---|---|---|---|---|---|---|
| | | TWA | STEL | TWA | STEL | TWA | STEL |
| L-Amino Acids | Mixture | 10 mg/m$^3$ | NDA | NDA | NDA | 15 mg/m$^3$ | NDA |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

### Appropriate engineering controls:

Provide sufficient ventilation to maintain airborne concentrations below the recommended exposure limits. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

### Individual protection measures, such as personal protective equipment:

**Eye protection:**

Tightly fitting safety goggles or face shield if a splashing hazard exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

**Skin protection:**

Handle with chemical resistant protective gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

## Section 8 - Exposure Control / Personal Protection (cont.)

**Body protection:**

Body protection must be chosen depending on activity and possible exposure, i.e. apron, chemical resistant footwear plus socks, long sleeved shirt, long pants, chemical protection suit.

**Respiratory protection:**

Not necessary in normal working conditions. If respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

**General safety and hygiene measures:**

Eye wash fountains and safety showers must be easily accessible. Employees should wash their hands and face before eating, drinking or using tobacco products.

## Section 9 - Physical and Chemical Properties

| | |
|---|---|
| **Appearance (physical state, color, etc):** | Off white powder |
| **Odor:** | Moderate |
| **Odor threshold:** | No data available. |
| **pH:** | No data available. |
| **Melting point:** | No data available. |
| **Freezing point:** | No data available. |
| **Initial boiling point:** | No data available. |
| **Boiling range:** | No data available. |
| **Flash point:** | No data available. |
| **Evaporation rate:** | No data available. |
| **Flammability (solid, gas):** | No data available. |
| **Upper/lower flammability or explosive limits:** | No data available. |
| **Vapor pressure:** | No data available. |
| **Vapor density:** | No data available. |
| **Relative density:** | No data available. |
| **Solubility:** | Soluble |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto-ignition temperature:** | No data available. |
| **Decomposition temperature:** | No data available. |
| **Viscosity:** | No data available. |
| **Specific gravity:** | No data available. |
| **Bulk Density:** | No data available |

## Section 10 - Stability and Reactivity

**Reactivity:**

No data available.

**Chemical stability:**

Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

**Possibility of hazardous reactions:**

No data available.

**Conditions to avoid (i.e. static discharge, shock or vibration):**

Product is hygroscopic. Avoid exposure to moisture.

**Incompatible materials:**

No data available.

**Hazardous decomposition products:**

No data available.

## Section 11- Toxicological Information

**Likely routes of exposure:**

Inhalation, ingestion, skin and eye contact.

**Symptoms related to physical, chemical and toxicological characteristics and delayed and immediate effects and chronic effects from short and long term exposure:**

**Acute Toxicity:**

No data available.

**Skin corrosion/irritation:**

No data available.

**Serious eye damage/eye irritation:**

No data available.

**Respiratory or skin sensitization:**

No data available.

**Carcinogenicity:**

No data available.

## Section 11- Toxicological Information (cont.)

**Germ cell mutagenicity:**
No data available.

**Reproductive toxicity:**
No data available.

**Specific target organ toxicity - single or repeated exposure:**
No data available.

**Aspiration hazard:**
No data available.

**Symptoms after inhalation:**
No data available.

**Symptoms after skin contact:**
No data available.

**Symptoms after eye contact:**
No data available.

**Symptoms after ingestion:**
May cause intestinal irritation if ingested.

## Section 12- Ecological Information

**Ecotoxicity (aquatic and terrestrial, where available):**

**Toxicity to fish (acute and chronic):**
No data available.

**Toxicity to daphnia and other aquatic invertebrates (acute and chronic):**
No data available.

**Toxicity to algae:**
No data available.

## Section 12- Ecological Information (cont.)

**Persistence and degradability:**

No data available.

**Bioaccumulative potential:**

No data available.

**Mobility in the soil:**

No data available.

**Other adverse effects:**

No data available.

## Section 13 - Disposal Considerations

**Waste treatment methods - product:**

Dispose in accordance with all local, state and federal regulations. In unused condition, this product is not considered to be a RCRA defined hazardous waste by character/listings. It is the responsibility of the waster generator to evaluate whether this wastes are hazardous by characteristic/listing.

**Waste treatment methods - container:**

Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

## Section 14 - Transport Information - US DOT, IATA, IMO, ADR:

**Proper Shipping Name:** Fertilizer Compound, NOI, Dry - **Pennamin Si**

**D. O. T. Hazard Class:** Not Regulated by D.O.T.

**Label Requirement:** None

**Placard:** None

**Packing Group:** N/Ap

**Environment Hazards:**

**Special Precautions:**

**NMFC Item No.** 68140

**UN #:** N/Ap

**RQ:** N/Ap

**CAS:** Mixture

**ERG Book Information:** None

**Marine Pollutant:**

**IATA:**

## Section 15 - Regulatory Information

**U.S. Federal - OSHA Status:**

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

**TSCA Status:**

Not Listed/Non-reportable

**SARA Title III Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:**

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

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## Section 15 - Regulatory Information (cont.)

**SARA Title III Sections 311/312:**

N/Ap

**SARA Section 313 Toxic Chemicals:**

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

**CAS#** **Chemical Name:**

This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

**SARA Superfund Section 110:**

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

**CERCLA, 40 CFR 117, 302:**

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

**CERCLA listed substances are:**

None listed

**Other Federal Reporting Requirements:**

**CAA:** This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

**CWA:** No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

**RCRA:** Not classified as a hazardous waste.

**State Reporting Requirements:**

**State Right to Know Laws:**

| CAS# | State RTK | Chemical Name |
|---|---|---|
| | | None |

**CALIFORNIA PROPOSITION 65:**

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

**Michigan Critical Materials:**

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

**Global Lists/International Inventories:**

**Canada CEPA:** N/A

**Canada WHMIS:** Not controlled

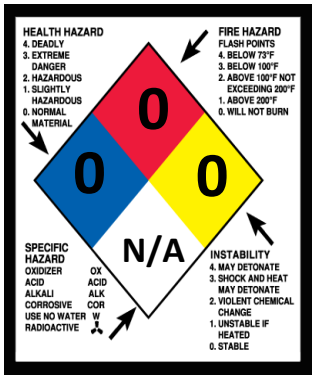
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## Section 16 - Other Information

***Note Section 3:*** *Any concentration shown as a range is to protect confidentiality or is due to batch variation.*
*4-15-2018 - reviewed no changes.*

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.
4-15-2024, Reviewed, updated Distributor name. The replaces all previous SDS's,




**Date of last revision:**
4-15-2024

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Safety Data Sheet available to your employees.

**Key Legend Information:**

| | | | |
|---|---|---|---|
| N/Ap: | Not Applicable | | |
| N/R: | Not Rated | ND: | Not Determined |
| ACGI | American Conference of Govr'ntal Industrial Hygienists | NDA: | No Data Available |
| OSHA: | Occupational Safety and Health Administration | TLV: | Threshold Limit Value |
| PEL: | Permissible Exposure Limit | TWA: | Time Weighted Average |
| STEL: | Short Term Exposure Limit | NTP: | National Toxicology Program |
| IARC: | International Agency for Research on Cancer | TSCA: | Toxic Substance Control Act |
| SARA Title III: | Superfund Amendments and Reauthorization Act | CERCLA: | Comprehensive Response, Compensation and Liability Act |
| CAA: | Clean Air Act | CWA: | Clean Water Act |
| RCRA: | Resource Conservation Recovery Act | | |
| IATA: | International Air Transport Association Shipping Info. | IMO: | International Maritime Organization Shipping Info. |
| DSL: | Domestic Substance List (Canada) | WHMIS: | Workplace Hazardous Materials Information System |

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200 HazCom 2012). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by LidoChem, Inc. as to the effects of such use or the results to be obtained, nor does LidoChem LLC assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations. All LidoChem LLC SDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new SDS from LidoChem LLC. if the date is older than 3 years.