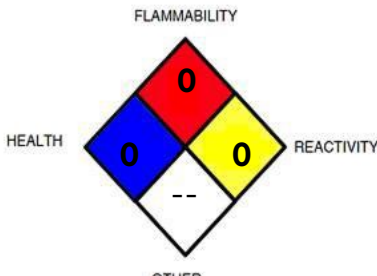
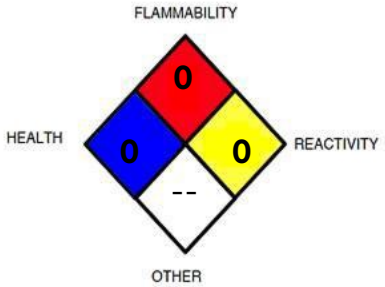


Safety Data Sheet

| Section 1: Product & Company Identification | |
|---|--|
| Product Name: | N-(p-Tosyl)-Gly-Pro-Lys 4-nitroanilide acetate salt |
| Product #: | N-3335 |
| Synonyms: | N-Tosylglycyl-L-prolyl-L-lysine 4-nitroanilide acetate salt, plasmin substrate |
| Supplier: | AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925 |
| Emergency Tele#: | ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585 |

| Section 2: Composition / Information on Ingredients | | | | |
|--|------------|-----------|---|--------------------|
| Component | CAS# | EC # | % | HCS Classification |
| C ₂₆ H ₃₄ N ₆ O ₇ S · C ₂ H ₄ O ₂ | 88793-79-7 | 289-446-7 | | |

| Section 3: Hazards Identification | |
|-----------------------------------|--|
| Symbols | N/A |
| HMIS Classification |  <p>The diagram is a diamond shape divided into four quadrants. The top quadrant is red and labeled 'FLAMMABILITY' with a '0'. The left quadrant is blue and labeled 'HEALTH' with a '0'. The right quadrant is yellow and labeled 'REACTIVITY' with a '0'. The bottom quadrant is white and labeled 'OTHER' with '--'.</p> |

| | |
|----------------------------|--|
| NFPA Classification |  <p>The diagram is a diamond-shaped hazard diamond. The top vertex is red and labeled 'FLAMMABILITY' with a '0' inside. The left vertex is blue and labeled 'HEALTH' with a '0' inside. The right vertex is yellow and labeled 'REACTIVITY' with a '0' inside. The bottom vertex is white and labeled 'OTHER' with '--' inside.</p> |
|----------------------------|--|

Section 4: First Aid Measures

| | |
|--------------------------|---|
| General Overview: | Avoid contact, wear suitable protective clothing, gloves and eye/face protection. |
| Inhalation: | If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention. |
| Skin: | Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear. |
| Eyes: | In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contacts. Assure adequate flushing of the eyes by separating the eyelids with fingers. |
| Ingestion: | If swallowed, DO NOT induce vomiting. Wash mouth with water, never give anything to unconscious person. Seek medical attention. |
| | See section 11 for more detailed information on health effects & symptoms |

SECTION 5: Fire Fighting Measures

| | |
|--|---|
| Flammability of the product: | Low to no flammable properties. |
| Extinguishing Media: | Dry Chemical Powder for SMALL FIRES and carbon dioxide or water spray, fog or foam for LARGE FIRES. |
| Hazardous thermal (de)composition products: | Sulphur oxides, Carbon oxides, and Nitrogen oxides |
| Special Fire Fighting Procedures: | Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes. |
| Flash Point: | N/A |

Section 6: Accidental Release Measures




| | |
|------------------------------|--|
| Personal Precautions: | Use Personal Protection Equipment. Splash goggles. Gloves. Avoid dust formation. |
|------------------------------|--|

| | |
|-----------------------------------|---|
| Environmental Precautions: | Avoid contamination by preventing product from entering drains. |
| Methods for Clean-up: | Sweep up & shovel into suitable disposal container. Ventilate area and wash spill site after material pickup is complete. |

SECTION 7: Handling & Storage

| | |
|------------------|--|
| Storage: | Store at -20°C and protect from light. Keep container tightly closed and in cool, dry, well ventilated area. |
| Handling: | Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood. Ground all equipment containing material. Do not breathe dust. |

SECTION 8: Exposure controls / Personal Protection

| | |
|--|---|
| Respiratory Protection: | Respiratory measures not required. Face mask recommended when dusts levels reaches above nuisance levels. If exposure limit reached use ventilation system when handling or wear appropriate government (NIOSH/MSHA) approved respirator. |
| Skin and Body: |   <p>Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.</p> |
| Eyes: |  <p>Safety goggles.</p> |
| Ventilation/Engineering Measures: | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. |
| Hygiene: | Wash hands after handling compound and before eating, smoking, using lavatory and at the end of the day. |
| Other: | Contains no substances with occupational exposure limit values. |

SECTION 9: Physical and Chemical Properties

| | |
|-------------------------------|---------------------------------------|
| Appearance & Odor: | Light yellow to white powder |
| Formula | $C_{26}H_{34}N_6O_7S \cdot C_2H_4O_2$ |
| Molecular Wt. | 634.70 |
| Melting Pt. | N/A |
| Boiling Pt. | N/A |
| Density: | N/A |
| Vapor Pressure: | N/A |
| Evaporation Rate: | N/A |
| Vapor Density: | N/A |
| Solubility: | Ethanol |
| Flash Point: | N/A |
| Autoignition Temp: | N/A |

SECTION 10: Stability and Reactivity

| | |
|--|--|
| Stability: | Stable under proper storage conditions |
| Hazardous decomposition products: | N/A |
| Materials to Avoid: | Strong acids and bases |
| Conditions to avoid: | N/A |

SECTION 11: Toxicological Information

| | |
|--|---|
| RTECS#: | N/A |
| ACUTE Toxicity: | N/A |
| CHRONIC Toxicity: | N/A |
| Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive: | <p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or, anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or, potential human carcinogen by OSHA.</p> |

| | |
|--|---|
| | EPA: No classification on carcinogenic data is available from EPA |
|--|---|

SECTION 12: Ecological Information

| | |
|---------------------------------------|---|
| Ecotoxicity: | N/A |
| Mobility: | N/A |
| Persistence and degradability: | N/A |
| Bioaccumulative potential: | N/A |
| Other adverse effects: | N/A |
| Corrosivity Characteristic: | N/A |
| General Notes: | Do not allow undiluted product or large quantities of it to reach groundwater , water course or sewer system. Do not allow materials to be released into the environment without proper government permits. |

SECTION 13: Disposal Considerations

| | |
|---|---|
| Residue Waste or Unused product: | Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations. |
| Contaminated Packaging: | Do not re-use empty containers. Dispose of as unused product. |

SECTION 14: Transportation Information

| | |
|----------------------------|---------------------|
| UN ID#: | N/A |
| ADR / RID (LAND): | Not shipping hazard |
| DOT regulations: | Not shipping hazard |
| IMDG/IMO (SEA): | Not shipping hazard |
| IATA/DGR (AIR): | Not shipping hazard |
| Special Provisions: | N/A |

SECTION 15: Regulatory Information

| | |
|----------------------------------|---|
| Health Phrases: | Not hazardous |
| Risk Phrases: | N/A |
| Safety Phrases: | N/A |
| EU Regulations: | N/A |
| US Regulations: | TSCA. No products were found. California Proposition 65: No products were found. |
| U.S. Federal Regulations: | SARA 302/304/311/312 extremely hazardous substances: No products were found |

| | |
|------------------------|--|
| | <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found.</p> <p>SARA 313 toxic chemicals notification and release reporting: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p> <p>OSHA: No products were found.</p> |
| WHMIS (Canada): | N/A |

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*