

## SAFETY DATA SHEET

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### Section 1, Identification

- **Catalog Number:** PPS-PRM-SOL-4L
- **Product Name:** Premium Wash Solvent
- **Alternate Name:**
- **Chemical Family:** Solvent
- **Recommended Use:** Peptide Synthesis
- **Restrictions on Use:**

### Section 2, Hazard(s) Identification



- **Eye Contact:** Corrosive to the eyes. Vapor may be irritating to the eyes.
- **Skin Contact:** Corrosive to the skin. Harmful if absorbed through the skin.
- **Inhalation:** Exposure to high concentrations of vapor may cause an accumulation of fluid in the lungs (pulmonary edema). Vapor may irritate the upper respiratory tract and produce nausea, headache and dizziness.
- **Ingestion:** May cause severe injury to the mouth, throat and digestive tract.
- **Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
- **Potential Acute Health Effects:** Respiratory tract irritation and pulmonary edema
- **Other Health Hazard Information:** Due to the potential for this material to produce respiratory tract irritation and pulmonary edema, workers with lung disease or limited respiratory capacity should have limited exposure to this material.

### Section 3, Composition/Information on Ingredients

Components	CAS#	Chemical Formula
Acetone	67-64-1	CH <sub>3</sub> COCH <sub>3</sub>
Triethylamine	121-44-8	(CH <sub>3</sub> ) <sub>3</sub> (CH <sub>2</sub> ) <sub>3</sub> N

### Section 4, First-Aid Measures

- **Eye Contact:**
  - Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes
  - Cold water may be used
  - Get medical attention immediately

- **Skin Contact:**
  - In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
  - Cold water may be used.
  - Wash clothing before reuse. Thoroughly clean shoes before reuse.
  - Get medical attention immediately.
- **Inhalation:**
  - If inhaled, move to fresh air. If not breathing, give artificial respiration.
  - If breathing is difficult, give oxygen.
  - Get medical attention immediately.
- **Ingestion:**
  - If swallowed, do not induce vomiting unless directed to do so by medical personnel.
  - Never give anything by mouth to an unconscious person.
  - Loosen tight clothing such as a collar, tie, belt or waistband.
  - Get medical attention immediately.

## Section 5, Fire-Fighting Measures

- **Suitable Extinguishing Media:**
  - Polyvalent foam
  - BC powder
  - Carbon dioxide
- **Unsuitable Extinguishing Media:**
  - Solid water jet ineffective as extinguishing medium
- **Instructions:**
  - Evacuate all unnecessary personnel. Shutdown motors, pumps, and electrical service to eliminate all sources of ignition. Wear NIOSH/MSA approved positive pressure self-contained breathing apparatus and full protective clothing.
  - Cool tanks/drums with water; spray/remove them into safety.
  - Dilute toxic gases with water spray.
  - Take account of toxic firefighting water.
  - Use firefighting water moderately and contain it.
  - Water may be ineffective for extinguishing a fire.
- **Special Protection Equipment for Firefighters:**
  - Wear NIOSH/MSA approved positive pressure self-contained breathing apparatus and full protective clothing.

## Section 6, Accidental Release Measures

- **Spill and Leak:**
  - Keep away from heat.
  - Turn off sources of ignition.
  - Stop leak if without risk.
  - Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed.
  - Call for assistance on disposal.
  - Handle in compliance with local, state, and federal environmental protection agency regulations.

## Section 7, Handling and storage

- **Handling:**
  - Use spark/explosion-proof appliances and lighting system.
  - Keep away from heat, sparks and flame.
  - Handle unclean empty containers as full ones.
  - Do not discharge the waste into the drain.
  - Remove contaminated clothing immediately.
  - Avoid breathing vapors and spray mists.
- **Storage:**
  - Keep container in a cool, well-ventilated area.

## Section 8, Exposure Controls/Personal Protection

- **Recommended Engineering Controls:**
  - Measure the concentration in the air regularly.
  - Work under local exhaust/ventilation.
- **Exposure Limits:**
  - **Acetone:**
    - OSHA – LTEL: N/A
    - OSHA – STEL: N / est
    - OSHA – PEL: 1000 ppm
    - ACGIH TLV: 500 ppm
    - ACGIH TLV-C: N / est
    - ACGIH STEL: 750 ppm
  - **Triethylamine:**
    - OSHA – LTEL: N/A
    - OSHA – STEL: N / est
    - OSHA – PEL: 25 ppm
    - ACGIH TLV: 1 ppm
    - ACGIH TLV-C: N / est
    - ACGIH STEL: 3 ppm
  - **Personal Protection:**
    - **Eye Protection:** Protective goggles
    - **Hand Protection:** Gloves
    - **Skin Protection:**
      - Head/neck protection
      - Corrosion proof clothing
    - **Respiratory Protection:**
      - Approved by NIOSH / MSHA whenever exposed to fumes or vapors. Comply with OSHA 1910.134 (CFR)
      - High vapor concentration: compressed air/oxygen apparatus.

## Section 9, Physical and Chemical Properties

- |                                      |                  |
|--------------------------------------|------------------|
| • <b>Physical Appearance:</b>        | Colorless Liquid |
| • <b>Odor:</b>                       | Strong Odor      |
| • <b>Color:</b>                      | Colorless        |
| • <b>Boiling Point:</b>              | N/A              |
| • <b>Melting Point:</b>              | N/A              |
| • <b>Vapor Pressure (mmHg/70°F):</b> | N.D.             |
| • <b>Vapor Density (Air = 1):</b>    | N/A              |

- **Specific Gravity:** 0.84
- **pH Value:** N.D.

### Section 10, Stability and Reactivity

- **Stability:** This product is stable
- **Incompatibility:** Oxidizing agents, halogen compounds, strong bases and acids.
- **Reactivity/Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide, combustion products of nitrogen, ammonia.
- **Conditions/Materials to Avoid:** Keep away from: heat sources, ignition sources, static discharge, open flame. Flammable vapors can be released at room temperatures. Keep containers closed when not in use. Ground and bond containers/ equipment when working with liquids.

### Section 11, Toxicological Information

- **Acute Toxicity, Triethylamine:**
  - **LD50 Oral Rat:** 450 mg/kg
  - **LD50 Dermal Rabbit:** 570 mg/kg
  - **LC50 Inhalation Rat:** 1000 ppm /4 h
  - **Skin Irritation:** Corrosive to rabbits
  - **Eye Irritation:** Corrosive to rabbits
  - **Carcinogenicity:** Triethylamine has not been identified by OSHA, NTP and IARC as a chemical that is considered to be a carcinogen. It is capable of forming the carcinogenic compound, n-nitrosodiethylamine, by photo-oxidation and during the incineration process.
  - **Routes of Exposure:** Ingestion, inhalation, eyes and skin. Substance is absorbed through the skin

### Section 12, Ecological Information\*

### Section 13, Disposal Considerations\*

- **EPA Waste Number:** N/A
- **RCRA Considerations:** Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

### Section 14, Transport Information\*

- **Proper Shipping Name:** Flammable liquid, corrosive, (acetone, triethylamine).
- **UN Number:** UN 2924
- **Transport by Road/Rail (ADR/RID):** class 3, 26a
- **Danger Code:** 3 (8)
- **Danger Labels on Tanks:** 3 (8)
- **Danger Labels on Packages:** 3 (8)
- **Packing Identification:** II
- **Air Freight (ICAO):**
  - Class 3
  - This product contains CERCLA 102(a) DOT hazardous substances.
  - The RQ (reportable quantity) for triethylamine is 5,000 pounds and the RQ for acetone is 5,000 pounds. The quantity of each substance in our standard packages is below the stated RQ value for these substances.

### Section 15, Regulatory Information\*

- **Highly Flammable:** Toxic
- **SARA Title III Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:
- **Contains:** Triethylamine (15 - 40%)
- **TSCA Status:** All ingredients contained in this product are on the TSCA inventory. The component (s) of this product have been verified to be listed on the following inventories: US, Canada (DSL), Europe (EU), Australia, Japan

### Section 16, Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether origination with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by Gyros Protein Technologies.

\*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).