

# MATERIAL SAFETY DATA SHEET

## Section 1 - Product and Company Information

**Product Name:** (R)-Piperazine-1,2,4-tricarboxylic acid 1-benzyl ester 4-tert-butyl ester

**Product Number:** 03R0394

**Company:** J & W PharmLab, LLC

**Street Address:** 3930 Nebraska Ave

**City, State, Zip, Country:** Levittown, PA 19056, USA

**Phone:** 1.215.945.6595

**Fax:** 1.215.945.6597

## Section 2 - Composition/Information on Ingredient

**CAS #:** [954388-33-1 **Formula:** C18H24N2O6

## Section 3 - Hazards Identification

**Emergency Overview:** Irritating to eyes and respiratory system. Lachrymator.

For additional information on toxicity, please refer to Section 11.

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## Section 4 - First Aid Measures

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Dermal Exposure:** In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure:** Assure adequate flushing of the eyes by separating the eyelids with fingers.

## Section 5 - Fire Fighting Measures

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Flammability:** N/A

**Extinguishing Media:** Water spray. Carbon dioxide, dry chemicals powder, or appropriate foam.

**Firefighting:** *Protective Equipment:* Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. *Specific Hazard(s):* Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

**Procedure(s) of personal Precaution(s):** Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Methods for Cleaning up:** Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

**Handling:** User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:** Suitable: Keep tightly closed.



Warning  
H315 H320

## Section 8 - Exposure Controls / PPE

**Engineering Controls:** Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment:** *Respiratory:* Government approved respirator.

*Hand:* Compatible chemical-resistant gloves. *Eye:* Chemical safety goggles.

**General Hygiene Measures:** Wash thoroughly after handling. Wash contaminated clothing before reuse.

## Section 9 - Physical/Chemical Properties

**Appearance Form:** White Solid

**Molecular Weight:** 364.39

**Melting/B oiling Point:** N/A

## Section 10 - Stability and Reactivity

**Stability:** *Materials to avoid:* Acids, Bases, Oxidizing agents Reducing agents.

**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide, nitrogen oxides, gas

## Section 11 - Toxicological Information

**Route of Exposure:** *Multiple Routes:* Harmful if swallowed, inhaled, or absorbed through skin. High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin.

**Signs and Symptoms of Exposure:** Material is destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation:** Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

**DOT:** Not regulated **TDG:** Not regulated

**IATA:** Not regulated **IMDG/IMO:** Not regulated

## Section 15 - Regulatory Information

Not available

## Section 16 - Other Information

**Disclaimer:** For R&D use only. Not for drug, household or other uses.

**Warranty:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. J & W PharmLab, LLC, shall not be held liable for any damage resulting from handling or from contact with the above product.