

# 4-Methylumbelliferyl phosphate bis (cyclohexylammonium) salt: sc-281423



The Power to Question

## MATERIAL SAFETY DATA SHEET

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### Section 1: Chemical Product and Company Identification

**Product Name:** 4-Methylumbelliferyl phosphate bis (cyclohexylammonium) salt  
**Catalog Number:** sc-281423  
**Synonyms:** MUP·2CHX  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### Section 2: Composition/Information on Ingredients

**CAS number:** 128218-53-1  
**Molecular Formula:** C<sub>10</sub>H<sub>9</sub>O<sub>6</sub>P · 2 C<sub>6</sub>H<sub>13</sub>N  
**Molecular Weight:** 454.50

### Section 3: Hazardous Ingredients/Identity Information

The toxicological properties of this material have not been thoroughly investigated. Care should be taken when using this material.

#### Target Organs

None known.

#### Potential Health Effects

<b>Eye</b>	May cause eye irritation.
<b>Skin</b>	May cause skin irritation.
<b>Ingestion</b>	May cause digestive tract irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Chronic</b>	Not available.

### Section 4: First Aid Measures

**If inhaled:** Remove to fresh air, if not breathing give artificial respiration, if breathing is difficult give oxygen, consult a physician

**In case of skin contact:** Immediately wash skin with water for ≥15 minutes, consult a physician

**In case of eye contact:** Rinse out with water for ≥15 minutes, consult a physician

**If swallowed:** Wash out mouth with water, consult a physician

### Section 5: Fire Fighting Measures

**Extinguishing media:** Water, carbon dioxide, dry chemical powder or foam

**Special fire fighting procedures:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

### Section 6: Accidental Release Measures

Wear a respirator and protective clothing

Sweep up dry, place in bag and hold for waste disposal

Ventilate area and wash spill site after material pick-up is complete Avoid generation of dusts

## Section 7: Storage

Store in tightly closed container in a dark, dry place. Store at -20 °C.

## Section 8: Control Measures

**Respiratory protection:** NIOSH/MSHA-approved respirator, do not breathe dust

**Ventilation:** maintain adequate ventilation

**Protective gloves:** chemical-resistant gloves required

**Eye protection:** safety goggles

**Work/hygienic practices:** Avoid contact with eyes, skin and clothing; wash skin thoroughly and remove contaminated clothing after handling.

**Other protective clothing or equipment:** safety shower and eye bath

## Section 9: Physical and Chemical Properties

Form	Powder	Odor	No characteristic odor
Melting Point	195-197 °C	Solubility in water	Soluble in water
Solubility other	Soluble in methanol		

## Section 10: Stability And Reactivity Data

**Stability:** stable under ordinary conditions of use and storage

**Conditions to avoid:** light, moisture

**Incompatibility (materials to avoid):** strong oxidizing agents, strong acids

**Hazardous decomposition or byproducts:** carbon monoxide, carbon dioxide, nitrogen oxides

**Hazardous polymerization:** will not occur

## Section 11: Toxicological Information

**LD50/LC50:** Not known

**Inhalation:** May cause irritation of respiratory tract

**Eye irritation:** May cause irritation

**Skin Irritation:** May cause irritation

**Ingestion:** May be harmful if swallowed.

**Chronic toxicity:** Not known

**Carcinogenicity:** Not known

**Mutagenicity:** Not known

## Section 12: Ecological Information

**Mobility:** Not known

**Degradability:** Not known

**Ecotoxicity:** Not known

## Section 13: Disposal Considerations

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

Not regulated as a hazardous material.

## Section 15: Regulatory Information

No specific regulatory information required.

## Section 16: Other Information

*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*

7/12/2012