Material Safety Data Sheet (MSDS)

I. Product and Company Identification

Product Name: Vorinostat (SAHA, MK0683)
Product Catalog Number: A4084
CAS Number: 149647-78-9
Company: APExBIO Technology
7505 Fannin street, Suite 410,
Houston, TX 77054, USA
+1-832-696-8203 TEL
+1-832-641-3177 FAX
+1-855-577-7998 EMERGENCY PHONE

II. Composition/data on components:

Formula: C14H20N2O3
Molecular Weight: 264.3

III. Hazards identification:

Emergency Overview
OSHA Hazards: Germ cell mutagenicity(Category 2), H341
Reproductive toxicity(Category 1A, 1B), H360

IV. First aid measures:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.
After skin contact: Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician;
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<th><strong>V. Fire fighting measures:</strong></th>
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<tr>
<td><strong>Conditions of flammability:</strong></td>
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<td><strong>Suitable extinguishing media:</strong></td>
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<td><strong>Special protective equipment for firefighters:</strong></td>
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<td><strong>Hazardous combustion products:</strong></td>
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<th><strong>VI. Accidental release measures:</strong></th>
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<td><strong>Personal precautions:</strong></td>
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<td><strong>Environmental precautions:</strong></td>
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<td><strong>Methods and materials for containment and cleaning up:</strong></td>
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<th><strong>VII. Handling and storage:</strong></th>
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<td><strong>Precautions for safe handling:</strong></td>
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Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Store at -20°C. Keep in a dry place.

VIII. Exposure controls and personal protection:

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<tr>
<th>Personal protective equipment as follows:</th>
<th>Contains no substances with occupational exposure limit values.</th>
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<tr>
<td>Respiratory protection:</td>
<td>Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</td>
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<tr>
<td>Hand protection:</td>
<td>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</td>
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<tr>
<td>Eye protection:</td>
<td>Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</td>
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<tr>
<td>Skin and body protection:</td>
<td>Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</td>
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<tr>
<td>Hygiene measures:</td>
<td>General industrial hygiene practice.</td>
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</table>

IX. Stability and reactivity:
### Chemical stability:
Stable under recommended storage conditions.

### Possibility of hazardous reactions:
No data available.

### Conditions to avoid:
No data available.

### Materials to avoid:
Strong acids, Strong bases.

### X. Toxicological information:

#### Carcinogenicity

**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.

**ACGIH:**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### XI. Ecological information:

**General notes:**
No data available.

### XII. Disposal consideration:

**General notes:**
Dispose of in accordance with prevailing country, federal, state and local regulations.

### XIII. Toxicological information:

**DOT (US):**
This substance is considered to be non-hazardous for transport.
IMDG: UN number: 3077  
Class: 9  
Packing group: III  
EMS-No: F-A, S-F  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.  
Marine pollutant: Marine pollutant

IATA: UN number: 3077  
Class: 9  
Packing group: III  
Proper shipping name: Environmentally hazardous substance, solid, n.o.s.

XIV. Regulations:

SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard.

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: No components are subject to the New Jersey Right to Know Act.

New Jersey Right To Know Components: No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.