

# Nicotine-d4: sc-208097



## MATERIAL SAFETY DATA SHEET

*The Power to Question*

### SECTION 1: PRODUCT IDENTIFICATION

**Product Name:** Nicotine-d4  
**Product Number:** sc-208097  
**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 +61395733112

### SECTION 2: CHEMICAL INFORMATION (UNLABELLED)

**Chemical Name:** NICOTINE  
**CAS No.:** 22083-74-5  
**Synonyms:** 3-(1-methyl-2-pyrrolidinyl)pyridine; (±)-Nicotine-2,4,5,6-d4 (pyridine – d4);

### SECTION 3: HAZARDS IDENTIFICATION

**Known Hazards:** TOXIC, IRRITANT, POSSIBLE TERATOGEN, CNS EFFECTS

### SECTION 4: FIRST AID MEASURES

**Skin Contact:** Wash with water.  
**Ingestion:** Medical assistance for gastric lavage.  
**Inhalation:** Remove to fresh air, artificial respiration or oxygen if necessary.

### SECTION 5: FIRE FIGHTING MEASURES

**Extinguishing Media:** Carbon dioxide, dry chemical powder, foam, water.  
**Special Fire Fighting Equipment:** Wear a self-contained breathing apparatus and protective clothing.  
**Unusual Fire and Explosion Hazards:** Toxic NOx fumes on decomposition.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.  
**Spill Clean-up Methods:** Provide adequate ignition-proof ventilation. Remove all heat and ignition sources. Carefully absorb on vermiculite and transfer to a closed container.

### SECTION 7: HANDLING AND STORAGE

**Usage/Handling Precautions:** Fumehood to meet TLV requirements  
**Storage Conditions:** Store at room temperature. Adequate ventilation. Protect from air. Protect from heat and ignition sources. Protect from light. Protect from moisture. Store at 4° C.

## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Respiratory Protection:</b>	Self-contained breathing apparatus or chemical cartridge.
<b>Hand Protection:</b>	Chemical-resistant gloves, solvent-resistant gloves.
<b>Eye Protection:</b>	Wear safety goggles.
<b>Other Protective Equipment:</b>	Protective clothing.
<b>Other Protective Measures:</b>	Provide safety showers and eyewash station near workplace.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless-yellow brown liquid.	<b>Density (g/cm<sup>3</sup>):</b>	1.01
<b>Boiling Point (°C):</b>	123–5 (17 mm)	<b>pH:</b>	10.2
<b>Melting Point (°C):</b>	-80	<b>Vapour Pressure (mm Hg):</b>	1 (62°C)
<b>Vapour Density (Air=1):</b>	5.61	<b>Water Solubility (%):</b>	100
<b>Volatiles (%):</b>	Low, steam volatile	<b>Method:</b>	Closed cup
<b>Flash Point (°C):</b>	101	<b>Upper:</b>	4
<b>Flammability Limits in Air (% by Vol.) Lower:</b>	0.75		
<b>Autoignition Temperature (°C):</b>	244		

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Incompatibility (Materials to Avoid):</b>	Acids. Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	CO/CO <sub>2</sub> and NO <sub>x</sub> on combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute and Chronic Health Hazards</b>	
<b>Oral LD<sub>50</sub>:</b>	50 mg/kg (rat) :
<b>Dermal LD<sub>50</sub>:</b>	50 mg/kg (rabbit)
<b>TLV:</b>	0.5 mg/m <sup>3</sup> (skin)
<b>Effects of Overexposure:</b>	Irritant (eyes, respiratory, skin). Burning. Coughing. Nausea. Vomiting. CNS effects (stimulant / depressant). Coma. Death. Possible mutagen. Possible teratogen.

## SECTION 12: ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal Procedures:** Via licensed disposal company. Dispose of according to federal and local regulations.

## SECTION 14: TRANSPORT INFORMATION

No data available.

## SECTION 15: REGULATORY INFORMATION

**TLV:** 0.5 mg/m<sup>3</sup> (skin).

and ignition sources. Protect from light. Protect from moisture. Store at 4° C.

## 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.*

9/23/2010