

5-Norbornene-2,3-dicarboxylic acid: sc-357061



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1 – Chemical Product and Company Identification

Product Name: 5-Norbornene-2,3-dicarboxylic acid
Product Number: sc-357061
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 – Product Information

CAS#: 3813-52-3
MDL#: Not available
EINECS#: 223-301-0

Section 3 – Physical and Chemical Properties

Physical state	crystal	Odor	Not available
Molecular Formula	C ₉ H ₁₀ O ₄	Molecular Weight	182.17
Freezing/Melting Point	170-175° C	Boiling Point	Not available
Flash Point	221.8° C	Autoignition Temperature	Not available
Specific rotation	Not available	Density	Not available
Decomposition Temperature	Not available	Solubility	Not available

Section 4 – Hazards Identification

Adverse human health effects: Exposure may produce an allergic reaction.

Section 5 – First Aid Measures

First aid measures

Inhalation: Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.

Skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.

Ingestion: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

Section 6 – Stability and Reactivity

Stability and reactivity: Stable under normal conditions.

Materials to avoid: Strong oxidizers.

Conditions to avoid: Light. Heat. Sources of ignition.

Hazardous decomposition products: Carbon dioxide. Carbon monoxide. When heated to decomposition, emits dangerous fumes.

Hazardous reactions: None under normal conditions.

Hazardous polymerization: Will not occur.

Section 7 – Handling and Storage

Personal protection: Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing.

Handling: Handle in accordance with good industrial hygiene and safety procedures.

Storage: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

Section 8 – Personal Protection

Respiratory protection: Wear approved mask. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Wear suitable gloves resistant to chemical penetration.

Skin protection: Wear suitable protective clothing.

Eye protection: Chemical goggles or safety glasses.

Industrial hygiene: Provide local exhaust or general room ventilation.

Section 9 – Fire and Explosion Hazard Data

Extinguishing media

- **Suitable extinguishing media:** Water spray. Carbon dioxide. Dry powder.

- **Unsuitable extinguishing media:** Do not use a heavy water stream.

Surrounding fires: Use water spray or fog for cooling exposed containers.

Protection against fire: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous combustion products: Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.

Section 10 – Accidental Release Measures

General precautions: Remove ignition sources. Evacuate area.

Personal precautions: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Clean up methods: To clean the floor and all objects contaminated by this material, use : Water. / Detergent. Avoid dust production. Ensure adequate ventilation.

Section 11 – Toxicological Information

RTECS nr: No data available.

Rat oral LD50 [mg/kg]: No data available.

Rabbit dermal LD50 [mg/kg]: No data available.

Rat inhalation LC50 [mg/L/4h]: No data available.

Acute toxicity: No data available.

Chronic toxicity: No data available.

Sensitization: No data available.

Section 12 – Environmental information

Not available

Section 13 – Disposal Consideration

General: Dispose of this material and its container at hazardous or special waste collection point.

Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15 – Regulatory Information

Hazard Symbols: Xi

Indication of Danger: Irritant

Risk Phrases

- R20 Harmful by inhalation.
- R21 Harmful in contact with skin.
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.

Safety Phrases

- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 Wear suitable gloves.
- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S39 Wear eye / face protection.

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.

9/10/2012