

# N,N-dimethyl-L-Valine: sc-205412



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Product Name** : N,N-dimethyl-L-Valine  
**Catalog Number** : sc-205412  
**Supplier** : Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 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

### 2. Hazards Identification

**Emergency Overview:** Avoid contact and inhalation.

**Route(s) of Entry:** Inhalation? Yes   Skin? Yes   Eyes? Yes   Ingestion? Yes   Other: Injection

**Potential Health Effects (Acute and Chronic):** Material may be irritating to the mucous membranes and upper respiratory tract.  
May be harmful by inhalation, ingestion, or skin absorption.  
May cause eye, skin, or respiratory system irritation.

**Signs and Symptoms Of Exposure:** To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**Medical Conditions Generally Aggravated By Exposure:** No data available.

### 3. Composition/Information on Ingredients

| Hazardous Components (Chemical Name) | CAS #     | Concentration | EC# | Risk Phrases      |
|--------------------------------------|-----------|---------------|-----|-------------------|
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | 100.0 %       | NA  | No phrases apply. |

### 4. First Aid Measures

**Emergency and First Aid Procedures:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.  
Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

**Flammable Properties and Hazards:** No data available.

**Hazardous Combustion Products:** No data available.

**Flash Pt:** No data.

**Autoignition Pt:** No data available.

**Explosive Limits:** LEL: No data.                      UEL: No data.

**Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

## 6. Accidental Release Measures

### Protective Precautions, Protective Equipment and Emergency Procedures:

Avoid raising and breathing dust, and provide adequate ventilation.  
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

### Environmental Precautions:

Take steps to avoid release into the environment, if safe to do so.

### Steps To Be Taken In Case Material Is Released Or Spilled:

Contain spill and collect, as appropriate.  
Transfer to a chemical waste container for disposal in accordance with local regulations.

## 7. Handling and Storage

### Precautions To Be Taken in Handling:

Avoid breathing (dust, vapor, mist, gas).  
Avoid prolonged or repeated exposure.

### Precautions To Be Taken in Storing:

Keep container tightly closed. Store at -20° C.  
Store in accordance with information listed on the product insert.

### Hazard Label Information:

Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.  
Wash thoroughly after handling.

## 8. Exposure Controls/Personal Protection

| Hazardous Components (Chemical Name) | CAS #     | OSHA PEL     | ACGIH TLV | Other Limits |
|--------------------------------------|-----------|--------------|-----------|--------------|
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | No data.     | No data.  | No data.     |
| Hazardous Components (Chemical Name) | CAS #     | Britain EH40 | France VL |              |
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | No data.     | No data.  |              |

### Protective Equipment Summary - Hazard Label Information:

Compatible chemical-resistant gloves    Eye wash station in work area    Lab coat    Safety glasses    Safety shower in work area    Vent Hood

### Engineering Controls (Ventilation etc.):

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### Eye Protection:

Safety glasses

### Protective Gloves:

Compatible chemical-resistant gloves

### Other Protective Clothing:

Lab coat

### Respiratory Equipment (Specify Type):

NIOSH approved respirator, as conditions warrant.

### Work/Hygienic/Maintenance Practices:

Do not take internally.  
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.  
Wash thoroughly after handling.

## 9. Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

#### Physical States:

☐ Gas    ☐ Liquid    ☒ Solid

#### Appearance and Odor:

A crystalline solid

#### Boiling Point:

No data.

#### Melting Point:

No data.

#### Autoignition Pt:

No data.

#### Flash Pt:

No data.

#### Specific Gravity (Water = 1):

No data.

#### Vapor Pressure (vs. Air or mm Hg):

No data.

#### Vapor Density (vs. Air = 1):

No data.

#### Evaporation Rate:

No data.

#### Solubility in Water:

No data.

#### Solubility Notes:

~10 mg/ml in PBS (pH 7.2); ~10 mg/ml in EtOH and DMF; ~5 mg/ml in DMSO;

**Other Information**

**Percent Volatile:** No data.

**Formula:** C7H15NO2

**Molecular Weight:** 145.20

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

**Stability Note(s):** Stable if stored in accordance with information listed on the product insert.

**Conditions To Avoid:** No data available.

**Polymerization:** Will occur [ ] Will not occur [ X ]

**Incompatibility - Materials To Avoid:** No data available.

**Hazardous Decomposition Or Byproducts:** No data available.

## 11. Toxicological Information

**Toxicological Information:** The toxicological effects of this product have not been thoroughly studied.

**Chronic Toxicological Effects:** No data available.

| Hazardous Components (Chemical Name) | CAS #     | NTP  | IARC | ACGIH | OSHA |
|--------------------------------------|-----------|------|------|-------|------|
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | n.a. | n.a. | n.a.  | n.a. |

## 12. Ecological Information

**General Ecological Information:** Avoid release into the environment.  
Runoff from fire control or dilution water may cause pollution.

## 13. Disposal Considerations

**Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

## 14. Transport Information

**LAND TRANSPORT (US DOT)**

**DOT Proper Shipping Name** Not dangerous goods.

**LAND TRANSPORT (European ADR/RID)**

**ADR/RID Shipping Name** Not dangerous goods.

**AIR TRANSPORT (ICAO/IATA)**

**ICAO/IATA Shipping Name** Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

## 15. Regulatory Information

**European Community Hazard Symbol codes**

No data available.

**European Community Risk and Safety Phrases**

S24/25 - Avoid contact with skin and eyes.  
S37/39 - Wear suitable gloves and eye/face protection.

**US EPA SARA Title III**

| Hazardous Components (Chemical Name) | CAS #     | Sec.302 (EHS) | Sec.304 RQ | Sec.313 (TRI) | Sec.110 |
|--------------------------------------|-----------|---------------|------------|---------------|---------|
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | No            | No         | No            | No      |

**Other US EPA or State Lists**

| Hazardous Components (Chemical Name) | CAS #     | CAA HAP,ODC | CWA NPDES | TSCA | CA PROP.65 |
|--------------------------------------|-----------|-------------|-----------|------|------------|
| 1. N,N-dimethyl-L-Valine             | 2812-32-0 | No          | No        | No   | No         |

**Regulatory Information Statement:** This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

*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.*

3/27/2012