

# Nervonic ceramide: sc-202729



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

|                        |                                                                                                                        |                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name:</b>   | Nervonic ceramide                                                                                                      | <b>Emergency:</b><br>ChemWatch<br>Within the US & Canada: 877-715-9305<br>Outside the US & Canada: +800 2436 2255<br>(1-800-CHEMCALL) or call +613 9573 3112 |
| <b>Catalog Number:</b> | sc-202729                                                                                                              |                                                                                                                                                              |
| <b>Supplier:</b>       | Santa Cruz Biotechnology, Inc.<br>2145 Delaware Avenue<br>Santa Cruz, California 95060<br>800.457.3801 or 831.457.3800 |                                                                                                                                                              |
| <b>Synonyms:</b>       | N-[(1S,2R,3E)-2-hydroxy-1-(hydroxymethyl)-3-heptadecen-1-yl]-15Z-tetracosenamide;<br>N-15Z-tetracosenoylsphingosine;   |                                                                                                                                                              |

### 2. Hazards Identification

|                                                             |                                                                                                                                                                                                           |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emergency Overview:</b>                                  | Avoid contact and inhalation.                                                                                                                                                                             |
| <b>Route(s) of Entry:</b>                                   | Inhalation? Yes    Skin? Yes    Eyes? Yes    Ingestion? Yes    Other: Injection                                                                                                                           |
| <b>Potential Health Effects (Acute and Chronic):</b>        | Material may be irritating to the mucous membranes and upper respiratory tract.<br>May be harmful by inhalation, ingestion, or skin absorption.<br>May cause eye, skin, or respiratory system irritation. |
| <b>Signs and Symptoms Of Exposure:</b>                      | To the best of our knowledge, the toxicological properties have not been thoroughly investigated.                                                                                                         |
| <b>Medical Conditions Generally Aggravated By Exposure:</b> | No data available.                                                                                                                                                                                        |

### 3. Composition/Information on Ingredients

| Hazardous Components (Chemical Name) | CAS #      | Concentration | EC# |
|--------------------------------------|------------|---------------|-----|
| 1. Nervonic Ceramide                 | 54164-50-0 | 100.0 %       | NA  |

### 4. First Aid Measures

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emergency and First Aid Procedures:</b> | If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.<br>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.<br>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.<br>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

|                                          |                                                                                                                                                                         |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Pt:</b>                         | No data.                                                                                                                                                                |
| <b>Explosive Limits:</b>                 | LEL: No data.                      UEL: No data.                                                                                                                        |
| <b>Autoignition Pt:</b>                  | No data available.                                                                                                                                                      |
| <b>Fire Fighting Instructions:</b>       | 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. |
| <b>Flammable Properties and Hazards:</b> | No data available.                                                                                                                                                      |
| <b>Hazardous Combustion Products:</b>    | No data available.                                                                                                                                                      |
| <b>Suitable Extinguishing Media:</b>     | Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.<br>Use water spray to cool fire-exposed containers.                                           |
| <b>Unsuitable Extinguishing Media:</b>   | A solid water stream may be inefficient.                                                                                                                                |

## 6. Accidental Release Measures

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

Avoid release into the environment.  
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).  
Transfer to a chemical waste container for disposal.

## 7. Handling and Storage

### Hazard Label Information:

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

### Precautions To Be Taken in Handling:

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

### Precautions To Be Taken in Storing:

Keep tightly closed.  
Store at -20° C.

## 8. Exposure Controls/Personal Protection

| Hazardous Components (Chemical Name) | CAS #      | OSHA PEL | ACGIH TLV | Other Limits |
|--------------------------------------|------------|----------|-----------|--------------|
| 1. Nervonic Ceramide                 | 54164-50-0 | No data. | 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

### Respiratory Equipment (Specify Type):

NIOSH approved respirator, as conditions warrant.

### Eye Protection:

Safety glasses

### Protective Gloves:

Compatible chemical-resistant gloves

### Other Protective Clothing:

Lab coat

### Engineering Controls (Ventilation etc.):

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

### 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

**Physical States:**                    ☐ Gas    ☐ Liquid    ☒ Solid

**Melting Point:**                    No data.

**Boiling 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 (vs Butyl Acetate=1):**                    No data.

**Solubility in Water:**                    No data.

**Solubility Notes:**                    ~5.5 mg/ml in EtOH & DMF;

**Percent Volatile:**                    No data.

**Formula:**                    C42H81NO3

**Molecular Weight:**                    648.10

**Appearance and Odor:**                    A crystalline solid

## 10. Stability and Reactivity

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

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

**Incompatibility - Materials To Avoid:** strong oxidizing agents

**Hazardous Decomposition Or Byproducts:** carbon dioxide  
carbon monoxide  
nitrogen oxides

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:** No data available.

## 11. Toxicological Information

The toxicological effects of this product have not been thoroughly studied.

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

**Carcinogenicity/Other Information:** No data available.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. 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. Nervonic Ceramide                 | 54164-50-0 | No            | No         | No            | No      |

### US EPA CAA, CWA, TSCA

| Hazardous Components (Chemical Name) | CAS #      | EPA CAA      | EPA CWA NPDES | EPA TSCA | HPV/LPV |
|--------------------------------------|------------|--------------|---------------|----------|---------|
| 1. Nervonic Ceramide                 | 54164-50-0 | HAP, ODC ( ) | No            | No       |         |

## 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.*