

Cayman Chemical Company  
1180 E. Ellsworth Rd.  
Ann Arbor, MI 48108



## 1. Identification of the Substance/Mixture and of the Company/Undertaking

**Product Code:** 13959

**Product Name:** N,N-DMT

**Synonyms:** N,N-dimethyl-1H-indole-3-ethanamine; N,N-Dimethyltryptamine; NSC 63795;

**Intended Use:** For research use only, not for human or veterinary use.

**Manufacturer Information**

**Company Name:** Cayman Chemical Company

**Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300

**Alternate Emergency Contact:** CHEMTREC Outside USA and Canada: +1 (703)527-3887

**Information:** Cayman Chemical Company +1 (734)971-3335

**Web site address:** www.caymanchem.com

## 2. Hazards Identification

GHS Classification	Placard	Key word	GHS Hazard
Acute Toxicity: Oral, Category 3	Skull and crossbones	Danger	Toxic if swallowed

**GHS Hazard Phrases:** H301: Toxic if swallowed.

**GHS Precaution Phrases:** P264: Wash hands thoroughly after handling.

**GHS Response Phrases:** P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330: Rinse mouth.

**GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information.

**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 or skin absorption.  
May cause eye, skin, or respiratory system irritation.  
Toxic if swallowed.

**Target Organs:** No data available.

**LD 50 / LC 50:** Please refer to Section 11.

**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	RTECS #
1. N,N-DMT	61-50-7	100.0 %	200-508-4	R25	NL7350000

## 4. First Aid Measures

**Emergency and First Aid Procedures:**

**In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

**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.

<b>In Case of Eye Contact:</b>	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
<b>In Case of Ingestion:</b>	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.
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.

### 5. Fire Fighting Measures

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

### 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	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).
<b>Environmental Precautions:</b>	Take steps to avoid release into the environment, if safe to do so.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

### 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed. Store in accordance with information listed on the product insert.
<b>Hazard Label Information:</b>	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-DMT	61-50-7	No data.	No data.	No data.
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe
1. N,N-DMT	61-50-7	No data.	No data.	No data.

<b>Protective Equipment Summary - Hazard Label Information:</b>	Compatible chemical-resistant gloves   Eye wash station in work area   Lab coat   Safety glasses   Safety shower in work area   Vent Hood
<b>Engineering Controls (Ventilation etc.):</b>	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
<b>Eye Protection:</b>	Safety glasses
<b>Protective Gloves:</b>	Compatible chemical-resistant gloves
<b>Other Protective Clothing:</b>	Lab coat

<b>Respiratory Equipment (Specify Type):</b>	NIOSH approved respirator, as conditions warrant.
<b>Work/Hygienic/Maintenance Practices:</b>	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.
<b>Environmental Exposure Controls:</b>	No data available.

## 9. Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

<b>Physical States:</b>	<input type="checkbox"/> Gas <input type="checkbox"/> Liquid <input checked="" type="checkbox"/> Solid
<b>Appearance and Odor:</b>	A crystalline solid
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	No data.
<b>Flash Pt:</b>	No data.
<b>Evaporation Rate:</b>	No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.
<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Specific Gravity (Water = 1):</b>	No data.
<b>Solubility in Water:</b>	No data.
<b>Solubility Notes:</b>	~0.5 mg/ml in 1:1 EtOH:PBS (pH 7.2); ~20, 5, and 11 mg/ml in EtOH, DMSO, & DMF;
<b>Autoignition Pt:</b>	No data.
<b>Explosive Properties:</b>	No data available.
<b>Oxidizing Properties:</b>	No data available.
<b>Other Information</b>	
<b>Percent Volatile:</b>	No data.
<b>Formula:</b>	C <sub>12</sub> H <sub>16</sub> N <sub>2</sub>
<b>Molecular Weight:</b>	188.30

## 10. Stability and Reactivity

<b>Reactivity:</b>	No data available.
<b>Stability:</b>	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
<b>Stability Note(s):</b>	Stable if stored in accordance with information listed on the product insert.
<b>Conditions To Avoid:</b>	No data available.
<b>Polymerization:</b>	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Incompatibility - Materials To Avoid:</b>	strong oxidizing agents
<b>Hazardous Decomposition Or Byproducts:</b>	No data available.

## 11. Toxicological Information

<b>Toxicological Information:</b>	The toxicological effects of this product have not been thoroughly studied.  N,N-DMT - Toxicity Data: Intraperitoneal LD50 (mouse): 47 mg/kg; Intravenous LD50 (mouse): 32 mg/kg;
<b>Chronic Toxicological Effects:</b>	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. N,N-DMT RTECS Number: NL7350000



# SAFETY DATA SHEET

## N,N-DMT

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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. N,N-DMT	61-50-7	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

**Globally Harmonized System of Classification and Labelling**

Acute Toxicity: Oral, Category 3 - Danger! Toxic if swallowed

**LAND TRANSPORT (US DOT)**

DOT Proper Shipping Name	Alkaloids, solid, n.o.s. (N,N-dimethyltryptamine)
DOT Hazard Class:	6.1
DOT Hazard Label:	POISON
UN/NA Number:	1544
Packing Group:	III

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

ADR/RID Shipping Name	Alkaloids, solid, n.o.s. (N,N-dimethyltryptamine)
UN Number:	1544
Hazard Class:	6.1 - POISON
Packing Group:	III

**AIR TRANSPORT (ICAO/IATA)**

ICAO/IATA Shipping Name	Alkaloids, solid, n.o.s. (N,N-dimethyltryptamine)
UN Number:	1544
Hazard Class:	6.1 - POISON
Packing Group:	III
IATA Classification:	6.1

**Additional Transport Information:**

Transport in accordance with local, state, and federal regulations.

## 15. Regulatory Information

**European Community Hazard Symbol codes** T: Toxic**European Community Risk and Safety Phrases**

- R25 - Toxic if swallowed.  
S22 - Do not breathe dust.  
S24/25 - Avoid contact with skin and eyes.  
S36/37/39 - Wear suitable protective clothing, 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-DMT	61-50-7	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-DMT	61-50-7	No	No	No	No

**Regulatory Information Statement:**

This SDS was prepared in accordance with 29 CFR 1910.1200, Regulation (EC) No.1272/2008, and European Directive 67/548/EEC as amended.

## 16. Other Information

**Revision Date:** 03/18/2013

**Company Policy or Disclaimer**

For research use only, not for human or veterinary use.

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required