



## Material Safety Data Sheet

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### SECTION 1: Product Identification

<b>Product name</b>	Bis(dimethylamino)(N,N'-di-t-butylethylenediamino)germane, 98%
<b>CAS #</b>	NA
<b>Catalog #</b>	0321450
<b>Chemical family</b>	Amide complexes

### SECTION 2: Composition, Information on Ingredients

<b>Component</b>	<b>%</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>Hazard Symbol</b>	<b>R-Phrase</b>
Bis(dimethylamino)(N,N'-di-t-butylethylenediamino)germane	98	NA	none	F	11 34

### SECTION 3: Hazard Identification

<b>Emergency overview</b>	Highly flammable. Causes burns.
<b>Eye contact</b>	Causes severe irritation of the eyes.
<b>Skin contact</b>	Causes severe irritation of the skin.
<b>Inhalation</b>	Causes severe irritation of the nose mucous membranes and respiratory tract.
<b>Ingestion</b>	May be harmful if swallowed. No information is available on the physiological effects of ingestion.
<b>Chronic health effects</b>	Not available.

### SECTION 4: First Aid Measures

<b>Eye exposure</b>	Flush eyes with of water for at least 10-15 minutes, get medical aid immediately.
<b>Skin exposure</b>	Wash the affected area with water. Remove contaminated clothes if necessary. Get medical aid.
<b>Inhalation</b>	Remove the victim from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance.
<b>Ingestion</b>	Don't induce vomiting without medical consultation. If victim is conscious wash out mouth with water. Seek medical attention.

### SECTION 5: Fire Fighting Measures

<b>General information</b>	If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Flammable liquid. If involved in a fire this material may emit toxic organic fumes.
<b>Extinguishing media</b>	Dry chemical, carbon dioxide or chemical foam.

### SECTION 6: Accidental Release Measures

<b>Spill and leak procedures</b>	Small spills can be mixed with vermiculite or sodium carbonate or other inert material and swept up. Remove all sources of ignition. Use a spark-proof tool.
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SECTION 7: Handling and Storage	
<b>Handling</b>	Avoid contact with skin and eyes. Use only in a chemical fume hood under an inert atmosphere of argon or nitrogen.
<b>Storage</b>	Store in a cool, dry place. Store in a tightly closed container under an inert atmosphere of argon or nitrogen. Keep away from sources of ignition, heat, sparks and open flame.
SECTION 8: Exposure Controls and Personal Protection	
<b>Eye protection</b>	Always wear approved safety glasses when handling a chemical substance in the laboratory.
<b>Skin protection</b>	Wear protective gloves.
<b>Ventilation</b>	Use only in a chemical fume hood.
<b>Respirator</b>	If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134.
SECTION 9: Physical and Chemical Properties	
<b>Appearance</b>	Colorless liq.
<b>Odor</b>	No data
<b>Melting point</b>	No data
<b>Flash point</b>	No data
<b>Solubility in water</b>	Insoluble
<b>Specific gravity</b>	No data
<b>Molecular formula</b>	C <sub>14</sub> H <sub>34</sub> GeN <sub>4</sub>
<b>Molecular weight</b>	331.06
SECTION 10: Stability and Reactivity	
<b>Stability</b>	Air and moisture sensitive liquid.
<b>Hazardous polymerization</b>	No hazardous polymerization.
<b>Conditions to avoid</b>	Incompatible materials, contact with moist air and ignition sources.
<b>Incompatibilities with other materials</b>	Strong oxygen agents
<b>Hazardous decomposition products</b>	Carbon dioxide, carbon monoxide, nitrogen oxides, germanium oxide.
SECTION 11: Toxicological Information	
<b>RTECS Data</b>	No information available in the RTECS files.
<b>Carcinogenic effects</b>	No data available.
<b>Mutagenic effects</b>	No data available.
<b>Tetratogenic effects</b>	No data available.
SECTION 12: Ecological Information	
<b>Ecological information</b>	No information available.
SECTION 13: Disposal Considerations	
Dispose of in a manner consistent with federal, state, and local regulations.	

SECTION 14: Transport Information	
<b>Shipping name (CFR)</b>	Flammable liquid, N.O.S*
<b>Hazard class (CFR)</b>	3
<b>Additional hazard class (CFR)</b>	NA
<b>Packing group (CFR)</b>	II
<b>UN ID number (CFR)</b>	1993
<b>Shipping name (IATA)</b>	Flammable liquid, N.O.S*
<b>Hazard class (IATA)</b>	3
<b>Additional hazard class (IATA)</b>	NA
<b>Packing group (IATA)</b>	II
<b>UN ID number (IATA)</b>	1993
SECTION 15: Regulatory Information	
<b>TSCA</b>	Not listed in the TSCA inventory
<b>SARA</b>	Not reportable under SARA Title 313.
SECTION 16: Other Information	
<b>Preparation date</b>	14.10.2008
<b>Revision date</b>	14.10.2008
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