



## Material Safety Data Sheet 1,5-Diphenylcarbazine

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

1,5-Diphenylcarbazine

**Catalog Numbers:**

LC13655

**Synonyms:**

1,5-Diphenylcarbohydrazide; 1,5-Diphenylcarbazine; Carbonic dihydrazide, 2,2'-diphenyl-; N,N'-Diphenylcarbazine.

**Company Identification:**LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
140-22-7	1,5-Diphenylcarbazine	100

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** Beige to pink solid.**Warning.** Causes respiratory tract irritation. Causes eye and skin irritation. Harmful if swallowed.  
Light sensitive.**Target Organs:** Eyes, skin, respiratory system.

#### Potential Health Effects

**Eye:**

Causes eye irritation.

**Skin:**

Causes skin irritation. May be harmful if absorbed through the skin.

**Ingestion:**

Harmful if swallowed. Causes gastrointestinal irritation.

**Inhalation:**

Causes respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

Laboratory experiments have resulted in mutagenic effects.



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### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical aid.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

**Autoignition Temperature:**

Not available.

**Flash Point:**

Not available.

**NFPA Rating:**

CAS# 140-22-7: Health: 2; Flammability: 1; Instability: 1

**Explosion Limits:**

Lower: n/a      Upper: n/a

### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.



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### Section 7 - Handling and Storage

**Handling:**

Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Storage:**

Store in a cool, dry place. Keep from contact with oxidizing materials. Store protected from light.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:**

Chemical Name:	ACGIH	NIOSH	OSHA
1,5-Diphenylcarbazine	none listed	none listed	none listed

**OSHA Vacated PELs:**

1,5-Diphenylcarbazine: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:**

Wear appropriate gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	Beige to pink
<b>Odor:</b>	Odorless
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	Not available
<b>Freezing/Melting Point:</b>	173-176°C
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Slightly soluble
<b>Specific Gravity/Density:</b>	Not available
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>14</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	242.28



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### Section 10 - Stability and Reactivity

**Chemical Stability:**

Light sensitive.

**Conditions to Avoid:**

Incompatible materials, light, dust generation, excess heat.

**Incompatibilities with Other Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

Nitrogen oxides, carbon monoxide, carbon dioxide.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 140-22-7: FF2750000

**LD50/LC50:**

Not available.

**Carcinogenicity:**

CAS# 140-22-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:**

No information found

**Teratogenicity:**

No information found

**Reproductive:**

No information found

**Mutagenicity:**

See actual entry in RTECS for complete information.

**Neurotoxicity:**

No information found

### Section 12 - Ecological Information

No information found

### Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

### Section 14 - Transport Information

**US DOT**

**Shipping Name:** Not regulated

**Hazard Class:**

**UN Number:**



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Packing Group:

### Section 15 - Regulatory Information

#### US Federal

**TSCA:**

CAS# 140-22-7 is listed on the TSCA inventory.

**SARA Reportable Quantities (RQ):**

None of the chemicals in this material have an RQ.

**CERCLA/SARA Section 313:**

No chemicals are reportable under Section 313.

**OSHA - Highly Hazardous:**

None of the chemicals in this product are considered highly hazardous by OSHA.

#### US State

**State Right to Know:**

CAS# 140-22-7 is not present on state lists from California, Pennsylvania, Minnesota, Massachusetts, Florida, or New Jersey.

**California Regulations:**

None.

#### European/International Regulations

**Canadian DSL/NDSL:**

CAS# 140-22-7 is listed on Canada's DSL List.

**Canada Ingredient Disclosure List:**

CAS# 140-22-7 is not listed on the Canadian Ingredient Disclosure List.

### Section 16 - Other Information

MSDS Creation Date: November 12, 2007

Revision Date: June 3, 2009

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