

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 12.17.2016

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## Diphenylcarbazine Indicator

### SECTION 1: Identification

#### Product identifier

**Product name:** Diphenylcarbazine Indicator

**Product code:** DC2005SS

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

**Manufacturer:**

**United States**

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

#### Emergency telephone number:

**Canada**

**ChemTel: (24-hour)**

+1(800)255-3924

+1(813)248-0585 (International)

### SECTION 2: Hazard(s) identification

#### GHS classification:

Flammable liquids, category 3

Eye irritation, category 2A

Specific target organ toxicity - single exposure, category 3, central nervous system

#### Label elements

##### Hazard pictograms:



**Signal word:** Warning

#### Hazard statements:

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

#### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/light/equipment.

P242 Use only non-sparking tools.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use agents recommended in section 5 for extinction.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse.

P302+P352 If on skin: Wash with soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

P405 Store locked up.

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P501 Dispose of contents and container as instructed in Section 13.

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 67-64-1	Acetone	99.37
CAS number: 140-22-7	1,5-Diphenylcarbazine	0.63

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

##### After skin contact:

Not determined or not applicable.

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

##### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Not determined or not applicable.

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**Delayed symptoms and effects:**

Not determined or not applicable.

**Immediate medical attention and special treatment****Specific treatment:**

Not determined or not applicable.

**Notes for the doctor:**

Not determined or not applicable.

### SECTION 5: Firefighting measures

**Extinguishing media****Suitable extinguishing media:**

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

**Unsuitable extinguishing media:**

Not determined or not applicable.

**Specific hazards during fire-fighting:**

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

**Special protective equipment for firefighters:**

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

**Special precautions:**

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

**Environmental precautions:**

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

**Methods and material for containment and cleaning up:**

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

**Reference to other sections:**

Not determined or not applicable.

### SECTION 7: Handling and storage

**Precautions for safe handling:**

Use only with adequate ventilation.

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Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

#### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Acetone	67-64-1	ACGIH TWA 500.0 ppm
	Acetone	67-64-1	ACGIH STEL 750.0 ppm
United States (OSHA)	Acetone	67-64-1	OSHA PEL TWA 1,000 ppm (2,400 mg/m <sup>3</sup> )
NIOSH	Acetone	67-64-1	NIOSH REL TWA 250.0 ppm (590.0 mg/m <sup>3</sup> )

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

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#### Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Acetone
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	-138.5 °F (-94.7 °C)
Initial boiling point/range	132.89 °F (56.05 °C) 101.325 kPa
Flash point (closed cup)	-4.00 °F (-20.00 °C) Closed Cup, 0.00 °F (-17.78 °C) Closed Cup
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	< 12.8%
Lower flammability/explosive limit	> 2.6%
Vapor pressure	30.93 kPa at 25 °C
Vapor density	Not determined or not available.
Density	0.79 g/cm <sup>3</sup> estimated
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	-0.2
Auto/Self-ignition temperature	869 °F (465 °C)
Decomposition temperature	Not determined or not available.
Dynamic viscosity	0.32 mPa.s at 68 °F (20 °C)
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

### SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

Excess heat, ignition source or flames.

#### Incompatible materials:

None known.

#### Hazardous decomposition products:

None known.

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

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**Substance data:** No data available.

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Serious eye damage/irritation

**Assessment:** Causes serious eye irritation

**Product data:** No data available.

**Substance data:**

Name	Result
Acetone	Causes serious eye irritation.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** May cause drowsiness or dizziness

**Product data:** No data available.

**Substance data:**

Name	Result
Acetone	Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

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**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.


### SECTION 13: Disposal considerations

#### Disposal methods:


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

<b>UN number</b>	UN 1993
<b>UN proper shipping name</b>	Flammable Liquid, N.O.S. (Acetone Solution)
<b>UN transport hazard class(es)</b>	3 
<b>Packing group</b>	II
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

#### International Maritime Dangerous Goods (IMDG)

<b>UN number</b>	UN 1993
<b>UN proper shipping name</b>	Flammable Liquid, N.O.S. (Acetone Solution)
<b>UN transport hazard class(es)</b>	3 
<b>Packing group</b>	II
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

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### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 1993
UN proper shipping name	Flammable Liquid, N.O.S. (Acetone Solution)
UN transport hazard class(es)	3 
Packing group	II
Environmental hazards	None
Special precautions for user	None

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

140-22-7	1,5-Diphenylcarbazine	Listed
67-64-1	Acetone	Listed

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

Acute	Chronic	Fire	Pressure	Reactive
No	No	No	No	No

**SARA Section 302 extremely hazardous substances:** Not determined.

**SARA Section 313 toxic chemicals:** Not determined.

#### CERCLA:

67-64-1	Acetone	Listed	5000
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#### RCRA:

67-64-1	Acetone	Listed	
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**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

140-22-7	1,5-Diphenylcarbazine	Not Listed
67-64-1	Acetone propan-2-one propanone	Listed

#### New Jersey Right to Know:

140-22-7	1,5-Diphenylcarbazine	Not Listed
67-64-1	Acetone propan-2-one propanone	Not Listed

#### New York Right to Know:

140-22-7	1,5-Diphenylcarbazine	Not Listed
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67-64-1	Acetone propan-2-one propanone	Listed
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#### Pennsylvania Right to Know:

140-22-7	1,5-Diphenylcarbazine	Not Listed
67-64-1	Acetone propan-2-one propanone	Listed

California Proposition 65: Not determined.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 1-3-0

**HMIS:** 1-3-0

**Initial preparation date:** 12.17.2016

**End of Safety Data Sheet**