

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : s-Diphenylcarbazone, ACS  
Product code : LC13675

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

LabChem Inc  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

|                                                             |      |                                  |
|-------------------------------------------------------------|------|----------------------------------|
| Skin corrosion/irritation Category 2                        | H315 | Causes skin irritation           |
| Serious eye damage/eye irritation Category 2A               | H319 | Causes serious eye irritation    |
| Specific target organ toxicity (single exposure) Category 3 | H335 | May cause respiratory irritation |

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust.  
P264 - Wash exposed skin thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to comply with local, state and federal regulations  
If inhaled: Remove person to fresh air and keep comfortable for breathing

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### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                  | Product identifier | %    | GHS-US classification                                         |
|-----------------------|--------------------|------|---------------------------------------------------------------|
| Diphenylcarbazone     | (CAS-No.) 538-62-5 | > 50 | Not classified                                                |
| 1,5-Diphenylcarbazide | (CAS-No.) 140-22-7 | < 50 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : 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.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

No additional information available

### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Diphenylcarbazone (538-62-5)

Not applicable

#### 1,5-Diphenylcarbazide (140-22-7)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Gas mask. Gloves. Safety glasses.



#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Respiratory protection not required in normal conditions

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### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                                                                |
|---------------------------------------------|----------------------------------------------------------------|
| Physical state                              | : Solid                                                        |
| Appearance                                  | : Powder.                                                      |
| Color                                       | : orange                                                       |
| Odor                                        | : None.                                                        |
| Odor threshold                              | : No data available                                            |
| pH                                          | : No data available                                            |
| Melting point                               | : 154 - 156 °C                                                 |
| Freezing point                              | : No data available                                            |
| Boiling point                               | : No data available                                            |
| Flash point                                 | : No data available                                            |
| Relative evaporation rate (butyl acetate=1) | : No data available                                            |
| Flammability (solid, gas)                   | : Non flammable.                                               |
| Vapor pressure                              | : No data available                                            |
| Relative vapor density at 20 °C             | : No data available                                            |
| Relative density                            | : No data available                                            |
| Solubility                                  | : Insoluble in water. Soluble in acetone. Soluble in alcohols. |
| Log Pow                                     | : No data available                                            |
| Auto-ignition temperature                   | : No data available                                            |
| Decomposition temperature                   | : No data available                                            |
| Viscosity, kinematic                        | : No data available                                            |
| Viscosity, dynamic                          | : No data available                                            |
| Explosion limits                            | : No data available                                            |
| Explosive properties                        | : No data available                                            |
| Oxidizing properties                        | : No data available                                            |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

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|                                                     |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| Skin corrosion/irritation                           | : Causes skin irritation.                                           |
| Serious eye damage/irritation                       | : Causes serious eye irritation.                                    |
| Respiratory or skin sensitization                   | : Not classified                                                    |
| Germ cell mutagenicity                              | : Not classified                                                    |
| Carcinogenicity                                     | : Not classified                                                    |
| Reproductive toxicity                               | : Not classified                                                    |
| Specific target organ toxicity – single exposure    | : May cause respiratory irritation.                                 |
| Specific target organ toxicity – repeated exposure  | : Not classified                                                    |
| Aspiration hazard                                   | : Not classified                                                    |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after inhalation                   | : May cause respiratory irritation.                                 |
| Symptoms/effects after skin contact                 | : Causes skin irritation.                                           |
| Symptoms/effects after eye contact                  | : Causes serious eye irritation.                                    |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

| s-Diphenylcarbazone, ACS         |                  |
|----------------------------------|------------------|
| Persistence and degradability    | Not established. |
| Diphenylcarbazone (538-62-5)     |                  |
| Persistence and degradability    | Not established. |
| 1,5-Diphenylcarbazide (140-22-7) |                  |
| Persistence and degradability    | Not established. |

### 12.3. Bioaccumulative potential

| s-Diphenylcarbazone, ACS         |                  |
|----------------------------------|------------------|
| Bioaccumulative potential        | Not established. |
| Diphenylcarbazone (538-62-5)     |                  |
| Bioaccumulative potential        | Not established. |
| 1,5-Diphenylcarbazide (140-22-7) |                  |
| Bioaccumulative potential        | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials      | : Avoid release to the environment.                                       |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

| 1,5-Diphenylcarbazide (140-22-7)    |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

#### 15.2. International regulations

##### CANADA

| Diphenylcarbazone (538-62-5)                          |  |
|-------------------------------------------------------|--|
| Listed on the Canadian DSL (Domestic Substances List) |  |
| 1,5-Diphenylcarbazide (140-22-7)                      |  |
| Listed on the Canadian DSL (Domestic Substances List) |  |

##### EU-Regulations

No additional information available

##### National regulations

| Diphenylcarbazone (538-62-5)                                |  |
|-------------------------------------------------------------|--|
| Not listed on the Canadian IDL (Ingredient Disclosure List) |  |
| 1,5-Diphenylcarbazide (140-22-7)                            |  |
| Not listed on the Canadian IDL (Ingredient Disclosure List) |  |

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

Revision date : 02/20/2018

Other information : None.

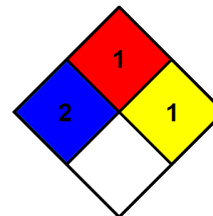
Full text of H-phrases: see section 16:

|      |                                  |
|------|----------------------------------|
| H315 | Causes skin irritation           |
| H319 | Causes serious eye irritation    |
| H335 | May cause respiratory irritation |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



##### Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection : E

E - Safety glasses, Gloves, Dust respirator

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