



The Power to Question

# SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.

Revision date 25-Apr-2019

Version 1.2

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### 1.1. Product Identifier

|                        |                      |
|------------------------|----------------------|
| Product Name           | 1,1-Diphenylethylene |
| Product Code           | SC-237636            |
| EC No                  | 208-482-6            |
| CAS No                 | 530-48-3             |
| Pure substance/mixture | Substance            |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

For research use only. Not intended for diagnostic or therapeutic use.

### 1.3. Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc.  
10410 Finnell Street  
Dallas, TX 75220  
831.457.3800  
800.457.3801  
scbt@scbt.com

Santa Cruz Biotechnology, Inc.  
Bergheimer Str. 89-2  
69115 Heidelberg, Germany  
+49.6221.4503 0  
+1.800.457.3801  
europe@scbt.com

### 1.4. Emergency telephone number

Chemtrec  
1.800.424.9300 (Within USA)  
+1.703.527.3887 (Outside USA)

## Section 2: HAZARDS IDENTIFICATION

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### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]  
Chronic aquatic toxicity Category 2 - (H411)

### 2.2. Label Elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Signal word Not classified

Symbols/Pictograms Not classified



Hazard statements H411 - Toxic to aquatic life with long lasting effects  
Not classified

Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment  
P391 - Collect spillage  
P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other Hazards

Other hazards Toxic to aquatic life  
General Hazards Not applicable



### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight 180.25  
Formula C<sub>14</sub>H<sub>12</sub>

#### 3.1 Substances

| Chemical name        | EC No   | CAS No.  | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|----------------------|---------|----------|----------|---|
| 1,1-Diphenylethylene | Present | 530-48-3 | 100      | Aquatic Acute 2 (H401)<br>Aquatic Chronic 2 (H411)              |

Full text of H- and EUH-phrases: see section 16

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General advice If symptoms persist, call a physician.

Inhalation Remove to fresh air. If symptoms persist, call a physician. Artificial respiration and/or oxygen may be necessary. Call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Ingestion Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

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

Symptoms No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available

Hazardous combustion products Carbon oxides.

#### 5.3. Advice for firefighters

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



## Section 6: ACCIDENTAL RELEASE MEASURES

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

|                          |  |
|--------------------------|--|
| Personal precautions     | Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| For emergency responders | Use personal protection recommended in Section 8.  |

### 6.2. Environmental precautions

|                           |  |
|---------------------------|--|
| Environmental precautions | Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information. |
|---------------------------|--|

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

|                         |  |
|-------------------------|--|
| Methods for containment | Prevent further leakage or spillage if safe to do so.  |
| Methods for cleaning up | Dam up. Use personal protective equipment as required. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |

### 6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

|                                |   |
|--------------------------------|---|
| Advice on safe handling        | Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. |
| General Hygiene Considerations | When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.   |

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

|                    |   |
|--------------------|---|
| Storage Conditions | Keep container tightly closed. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. |
|--------------------|---|

### 7.3. Specific end use(s)

|                               |   |
|-------------------------------|---|
| Risk Management Methods (RMM) | The information required is contained in this Material Safety Data Sheet. |
|-------------------------------|---|

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

|  |   |
|--|---|
| Exposure Limits                          | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| Derived No Effect Level (DNEL)           | No information available  |
| Predicted No Effect Concentration (PNEC) | No information available.   |

### 8.2. Exposure controls

|                                 |   |
|---------------------------------|---|
| Engineering Controls            | Showers<br>Eyewash stations<br>Ventilation systems  |
| Eye/face protection             | Tight sealing safety goggles. Face protection shield.   |
| Skin and Body Protection        | Suitable protective clothing. Apron. Gloves made of plastic or rubber.  |
| Respiratory protection          | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| Environmental exposure controls | Do not allow into any sewer, on the ground or into any body of water.   |



## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                |                          |
|----------------|--------------------------|
| Physical State | liquid                   |
| Appearance     | No information available |
| Odor           | No information available |

| <b>Property</b>              | <b>Values</b>            |
|------------------------------|--------------------------|
| pH                           | No information available |
| Melting point/freezing point | 6 °C                     |
| Boiling point                | 270 °C                   |
| Flash point                  | 113 °C CC (closed cup)   |
| Liquid Density               | 1.02 g/mL                |
| Evaporation rate             | No information available |
| Upper flammability limits    | No information available |
| Lower flammability limit     | No information available |
| Vapor pressure               | 0.0                      |
| <b>mmHg</b>                  |                          |
| Vapor density                | No information available |
| Specific gravity             | 1.03                     |
| Water solubility             | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient        | 3.86                     |
| Autoignition temperature     | No information available |
| Decomposition temperature    | No information available |
| Kinematic viscosity          | No information available |
| Explosive properties         | No information available |
| Oxidizing properties         | No information available |

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

|            |                |
|------------|----------------|
| Reactivity | Not applicable |
|------------|----------------|

### 10.2. Chemical stability

|                                  |  |
|----------------------------------|--|
| Stability                        | Stable under recommended storage conditions. |
| Sensitivity to Mechanical Impact | No information available.                    |
| Sensitivity to Static Discharge  | No information available.                    |

### 10.3. Possibility of hazardous reactions

|                                    |                               |
|------------------------------------|-------------------------------|
| Hazardous polymerization           | No information available.     |
| Possibility of Hazardous Reactions | None under normal processing. |

### 10.4. Conditions to avoid

|                     |  |
|---------------------|--|
| Conditions to avoid | Extremes of temperature and direct sunlight. |
|---------------------|--|

### 10.5. Incompatible materials

|                        |                          |
|------------------------|--------------------------|
| Incompatible materials | Strong oxidizing agents. |
|------------------------|--------------------------|

### 10.6. Hazardous decomposition products

|                                  |                |
|----------------------------------|----------------|
| Hazardous Decomposition Products | Carbon oxides. |
|----------------------------------|----------------|

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

|                        |   |
|------------------------|---|
| Product Information    | Product does not present an acute toxicity hazard based on known or supplied information. |
| Unknown acute toxicity | 0% of the mixture consists of ingredient(s) of unknown toxicity.                          |



## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.  
 Unknown aquatic toxicity 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation No information available.

### 12.4. Mobility in soil

Mobility No information available.

### 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

### 12.6. Other adverse effects

Other adverse effects No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.  
 Contaminated packaging Do not reuse container.  
 Other Information Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

|                                  | <u>RID / ADR</u> | <u>IMDG</u>   | <u>ICAO (air) / IATA</u> |
|----------------------------------|------------------|---------------|--------------------------|
|                                  | Not regulated    | Not regulated | Not regulated            |
| 14.1 UN/ID no                    | -                | -             | -                        |
| 14.2 Proper shipping name        | -                | -             | -                        |
| 14.3 Hazard Class                | -                | -             | -                        |
| Subsidiary hazard class / Labels | -                | -             | -                        |
| 14.4 Packing Group               | -                | -             | -                        |
| 14.5 14.5 Environmental Hazard   | -                | -             | -                        |
| 14.6 14.6 Special Provisions     | -                | -             | -                        |

## Section 15: REGULATORY INFORMATION



## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### National Regulations

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

### International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Philippines (PICCS)

| Chemical name        | TSCA | DSL | NDL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------|------|-----|-----|--------|--------|------|-------|------|-------|------|
| 1,1-Diphenylethylene | X    | X   | -   | X      | -      | -    | -     | -    | X     | X    |

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

## 15.2. Chemical safety assessment

Chemical Safety Report No information available

## Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Revision note

No information available.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

**End of Safety Data Sheet**