SAFETY DATA SHEET
Santa Cruz Biotechnology, Inc.
Revision date 19-Sep-2018
Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name Iprodione
Product Code SC-211657

Recommended use of the chemical and restrictions on use
For research use only. Not intended for diagnostic or therapeutic use.

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

Emergency telephone number
Chemtrec
1.800.424.9300 (Within USA)
+1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification
Carcinogenicity Category 2

Label elements
Signal word Warning
Hazard statements Suspected of causing cancer
Symbols/Pictograms

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Hazard statements Not applicable

Other Information
Other hazards Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

NFPA Health hazards -
Flammability -
Stability -
Physical and chemical properties -

HMIS Health hazards -
Flammability -
Physical hazards -
Personal protection -
* = Chronic Health Hazard
3. COMPOSITION/INFORMATION ON INGREDIENTS

- **CAS No:** 36734-19-7
- **Molecular Weight:** 330.17
- **Formula:** C_{13}H_{13}Cl_{2}N_{3}O_{3}

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iprodione</td>
<td>36734-19-7</td>
<td>&gt;98</td>
<td>= 3500 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5.16 mg/L (Rat) 4 h &gt; 3300 mg/m³ (Rat) 4 h</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

- **First Aid Measures**
  - **General advice:** Consult a physician if necessary. Remove to fresh air.
  - **Eye contact:** Wash with plenty of water.
  - **Skin Contact:** Wash skin with soap and water.
  - **Inhalation:** Remove to fresh air if breathing is difficult, give oxygen. If not breathing, give artificial respiration.
  - **Ingestion:** Never give anything by mouth to an unconscious person. Clean mouth with water.

- **Most important symptoms and effects, both acute and delayed**
  - **Symptoms:** No information available.

- **Indication of any immediate medical attention and special treatment needed**
  - **Note to physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media**
  - **Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**
  - **Unsuitable Extinguishing Media:** No information available.

- **Specific hazards arising from the chemical**
  - **Thermal decomposition can lead to release of toxic/corrosive gases and vapors.**
  - **Carbon oxides. Phosgene. Nitrogen oxides (NOx).**

- **Explosion data**
  - **Sensitivity to Mechanical Impact:** No information available.
  - **Sensitivity to Static Discharge:** No information available.

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

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**
  - **Personal precautions:** Ensure adequate ventilation, especially in confined areas.
Environmental precautions
Environmental precautions
See Section 12 for additional Ecological Information.

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
Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling
Advice on safe handling
Thermal decomposition can lead to release of toxic/corrosive gases and vapors.

Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.
Incompatible materials
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering Controls
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment
Eye/face protection
Wear safety glasses with side shields (or goggles).
Skin and Body Protection
Wear protective gloves and protective clothing.
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.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid
Appearance
No information available
Odor
No information available

Property
Values
pH
No information available
Melting point/freezing point
131 °C
Boiling point
No information available
Flash point
No information available
Liquid Density
No information available
Evaporation rate
No information available
10. STABILITY AND REACTIVITY

Reactivity
Not applicable

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization
No information available.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents.

Hazardous Decomposition Products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
No data available.

Eye contact
No data available.

Skin Contact
No data available.

Ingestion
No data available.

Information on toxicological effects

Symptoms
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity
No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
3500 mg/kg

ATEmix (dermal)
2002 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic life with long lasting effects

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iprodione 36734-19-7</td>
<td>1.9: 120 h</td>
<td>Pseudokirchneriella subcapitata mg/L EC50</td>
<td>4.1: 96 h Oncorhynchus mykiss mg/L LC50 flow-through</td>
<td>0.25: 48 h Daphnia magna mg/L EC50 0.31 - 0.61: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>
SC-211657 - Iprodione

Static 0.34 - 0.39: 48 h
Daphnia magna mg/L EC50
Flow through

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility
No information available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iprodione</td>
<td>3</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Do not reuse container.

14. TRANSPORT INFORMATION

DOT
UN/ID no          UN3077
Hazard Class      9
Packing Group     III
Proper shipping name Environmentally hazardous substance, solid, n.o.s.
Description      UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, III, Marine pollutant
Emergency Response Guide Number 171

IMDG
UN/ID no          UN3077
Hazard Class      9
Packing Group     III
Proper shipping name Environmentally hazardous substance, solid, n.o.s.
Description      UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, III, Marine pollutant
Special Provisions 274, 335, 966, 967, 969
EmS-No            F-A, S-F

IATA
UN/ID no          UN3077
Hazard Class      9
Packing Group     III
Proper shipping name Environmentally hazardous substance, solid, n.o.s.
Description      UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, III
ERG Code          9L

15. REGULATORY INFORMATION

International Inventories
All of the components in the product are on the following Inventory lists
Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC)
X - Listed

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

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
Acute health hazard No
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
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<th>Chemical name</th>
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<tr>
<td>Iprodione - 36734-19-7</td>
<td>Carcinogen</td>
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</table>

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations

16. OTHER INFORMATION

Revision note No information available

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