The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc. Revision date 10-Nov-2014 Version 1.1

1. PRODUCT AND COMPANY IDENTIFICATION

Pirfenidone **Product Name**

SC-203663 **Product Code**

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

Company **Emergency telephone number**

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

scbt@scbt.com

Chemtrec 800.424.9300 (Within USA) 1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

ATTENTION Signal word

Contains a known or suspected reproductive toxin **Emergency Overview**

May cause skin irritation and/or dermatitis

Severe eye irritation

Vapors may be irritating to eyes, nose, throat, and lungs

Product dust may be irritating to eyes, skin and respiratory system

This material is considered hazardous by the OSHA Hazard Communication Standard (29 **OSHA Regulatory Status**

CFR 1910.1200)

Potential health effects

Avoid contact with eyes. Risk of serious damage to eyes. Eves

Skin Irritating to skin. May cause inflammation. Avoid contact with skin.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause irritation to mucous membranes.

Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects. Chronic Toxicity

Avoid repeated exposure.

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) Not applicable

See Section 12: ECOLOGICAL INFORMATION. **Environmental Hazard**

NFPA

Health hazards Flammability Stability 0

Physical and chemical

properties



Health hazards **HMIS** Flammability Physical hazards

Personal protection

1

0

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name Pirfenidone **Molecular Weight** 185.23 C₁₂H₁₁NO **Formula**

4. FIRST AID MEASURES

General advice Immediate medical attention is required. If symptoms persist, call a physician.

Eye contact 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. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and

upper evelids. Consult a physician. If symptoms persist, call a physician.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

> water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a

physician. Immediate medical attention is not required.

Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial Inhalation

respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Immediate medical attention is not required. Move to fresh air in case of accidental

inhalation of vapors. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water

and drink afterwards plenty of water. Call a physician.

Note to physicians Treat symptomatically.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

surrounding environment.

Specific hazards arising from the chemical

Flammable properties Not determined.

Flash point °C 152.74

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

Protective equipment and precautions for firefighters

Protective equipment and precautions Wear self-contained breathing apparatus and protective suit. Wear self-contained breathing

for firefighters apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak. Evacuate personnel to safe areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system. See Section 12 for additional

Ecological Information.

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

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. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush

away traces with water. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Advice on safe handling

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Engineering Controls Showers

> **Eyewash stations** Ventilation systems

Personal protective equipment (PPE)

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and Body Protection Gloves made of plastic or rubber. Suitable protective clothing. Suitable protective clothing.

Apron.

Respiratory protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid Appearance

Odor No information available

Values Property

No information available

Melting point/freezing point 108 °C **Boiling point** 338.02 °C Flash point 152.74 °C Density 1.14 g/cm3

Evaporation rate No information available No information available Upper flammability limits Lower flammability limit No information available

Vapor pressure

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Vapor densityNo information availableSpecific gravityNo information availableWater solubilityNo information availableSolubility in other solventsNo information available

Partition coefficient 1.91

Autoignition temperature
Decomposition temperature
Kinematic viscosity
Explosive properties
No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Stability Stable under recommended storage conditions.

Conditions to avoid Heat, flames and sparks. Extremes of temperature and direct sunlight.

Hazardous Decomposition Products Carbon oxides.

Hazardous polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Chronic Toxicity

Chronic Toxicity Prolonged or repeated exposure increases the risk. Possible risk of irreversible effects.

Avoid repeated exposure.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability
Bioaccumulation
No information available.
No information available.

13. DISPOSAL CONSIDERATIONS

Disposal considerations Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA Not regulated



Not regulated **IMDG**

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists No information available

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 Yes 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 does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

Mexico Regulatory Information

Mexico - Grade Slight risk, Grade 1

Canada Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class Non-controlled

16. OTHER INFORMATION



10-Nov-2014 **Revision date**

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