

### MATERIAL SAFETY DATA SHEET

The Power to Question

#### Identification of the substance/preparation and of the company/undertaking 1.

TN-16 sc-204347 **Product name** Catalog #

Santa Cruz Biotechnology, Inc. **Supplier** Chemical formula  $C_{19}H_{18}N_2O_2$ 2145 Delaware Avenue

Santa Cruz, California 95060 3-(1-Anilinoethylidene)-5-benzylpyrrolidine-2,4-dione Synonym 800.457.3801 or 831.457.3800

> **Emergency** ChemWatch

Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

# Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
1) 3-(1-Anilinoethylidene)-5-benzylpyrrolidine-2,4-dione	33016-12-5	Not available.	Xn	R40

#### Hazards identification

Physical/chemical hazards : Not applicable.

**Human health hazards** : CAUTION! MAY CAUSE HERITABLE GENETIC EFFECTS BASED ON ANIMAL DATA.

#### First-aid measures 4.

#### First-Aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an **Ingestion** 

unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin Contact** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in **Aggravating conditions** one or many human organs.

### Fire-fighting measures

Flammability of the Product : May be combustible at high temperature. **Extinguishing Media** 

Suitable : SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Hazardous thermal (de)composition: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Special fire-fighting procedures **Protection of fire-fighters** 

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

: Be sure to use an approved/certified respirator or equivalent.

#### Accidental release measures 6.

**Personal precautions** 

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Small Spill and Leak

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary systen

# 7. Handling and storage

Handling

: Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

**Storage** 

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 4°C (39.2°F).

**Packaging materials** 

Recommended use : Use original container.

# 8. Exposure controls/personal protection

**Engineering measures** 

: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Hygiene measures** 

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient Name
1) TN-16

Occupational Exposure Limits

Not available.

Personal protective equipment

Skin and body : Lab coat.

Eyes : Safety glasses.

Protective Clothing : (Pictograms)



# 9. Physical and chemical properties

Physical state

: Solid.

Color
Molecular Weight
Solubility

Not available306.4 g/mole

Flash point
Explosive properties

Not available.Not available.

: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

# 10. Stability and reactivity

Stability : The product is stable.

Conditions to avoid : Sensitive to light.

Hazardous Decomposition Products : These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

# 11. Toxicological information

RTECS#

: Not available.

**Local effects** 

Skin irritation

: Not available.

**Acute toxicity** 

: LD50: Not available.

LC50: Not available.

**Chronic toxicity** 

: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Other Toxic Effects on

Humans

: No specific information is available in our database regarding the other toxic effects of this material for

In vitro studies in mammal cells have shown mutagenic action.

To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Carcinogenic effects : Not available.

Mutagenic effects : Classified POSSIBLE for human.

Reproduction toxicity : Not available.

Teratogenic effects : Not available.

## 12. Ecological information

**Ecotoxicity** 

: Not available.

**Toxicity of the Products of Biodegradation** 

: The product itself and its products of degradation are not toxic.

#### 13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14. Transport information

**International transport regulations** 

Land - Road/Railway

**IMDG Class** 

ADR/RID Class

<u>Sea</u>

: Not controlled under IMDG.

: Not controlled under ADR (Europe)

Air

IATA-DGR Class : Not controlled under IATA.

**Special Provisions for** 

**Transport** 

Not applicable.

# 15. Regulatory information

#### **EU Regulations**

Hazard symbol(s)



Classification

: Harmful

**Risk Phrases** 

: R68- Possible risks of irreversible effects.

Safety Phrases

: S22- Do not breathe dust. S36- Wear suitable protective clothing.

: - TN-16

U.S. Federal Regulations

**Contains** 

: TSCA: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification : Not controlled under the HCS (United States).

State Regulations :

<u>WHMIS (Canada)</u>: Not controlled under WHMIS (Canada).

No products were found.

#### 16. Other information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.