# 3,4-Dinitrophenol: sc-232029



# MATERIAL SAFETY DATA SHEET

The Power to Question

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 3,4-Dinitrophenol **Product Number:** sc-232029

Supplier: Santa Cruz Biotechnology, Inc.

2145 Delaware Avenue Santa Cruz, CA 95060

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

### 2. HAZARDS IDENTIFICATION

**Emergency Overview** 

**OSHA Hazards** 

Flammable solid

**GHS Classification** 

Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)

Specific target organ toxicity - repeated exposure (Category 2)

Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H301 + H311 Toxic if swallowed or in contact with skin.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H401 Toxic to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves/protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P311 Call a POISON CENTER or doctor/physician.

**HMIS Classification** 

Health hazard: 3 Flammability: 0 Physical hazards: 4

**NFPA Rating** 

Health hazard: 0 Fire: 0 Reactivity Hazard: 4

#### **Potential Health Effects**

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.Skin: May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation. **Ingestion:** May be harmful if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: C6H4N2O5 Molecular Weight: 184.11

No ingredients are hazardous according to OHSA criteria.

 CAS-No.
 EC-No.
 Index-No.
 Concentration

 3,4-Dinitrophenol

# 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### **Conditions of flammability**

Flammable in the presence of a source of ignition, through friction or retained heat. Keep away from heat/sparks/open flame/hot surface. No smoking.

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx)

# 6. ACCIDENTAL RELEASE MEASURES

## **Personal precautions**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

# Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Heat sensitive. Store at room temperature.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

# Personal protective equipment

## **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Boiling point Ignition temperature Lower explosion limit Vapor pressure Water solubility Odor Evaporation rate Melting point/freezing point	crystalline no data available 130 - 135 °C	pH Flash point Autoignition temperature Upper explosion limit Density Relative vapor density Odor Threshold Partition coefficient:	no data available no data available no data available no data available no data available no data available no data available
Melting point/freezing point	130 - 135 °C (266 - 275 °F)	n-octanol/water	

# 10. STABILITY AND REACTIVITY

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

no data available

# Conditions to avoid

no data available

### Materials to avoid

Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx)

### Other decomposition products

no data available

Contains the following stabiliser(s): Water (20 %)

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Oral LD50: no data available Inhalation LC50: no data available Dermal LD50: no data available

Other information on acute toxicity: no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

**Teratogenicity** 

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.Skin: May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation. **Ingestion:** May be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects no data available

Additional Information

RTECS: Not available

# 12. ECOLOGICAL INFORMATION

Toxicity Persistence and degradability

no data available

Bioaccumulative potential

no data available

mo data available

no data available

PBT and vPvB assessment

no data available

#### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

### 13. DISPOSAL CONSIDERATIONS

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1320 Class: 4.1 (6.1) Packing group: I

Proper shipping name: Dinitrophenol, wetted

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1320 Class: 4.1 (6.1) Packing group: I EMS-No: F-B, S-J

Proper shipping name: DINITROPHENOL, WETTED

Marine pollutant: Marine pollutant

IATA

UN number: 1320 Class: 4.1 (6.1) Packing group: I

Proper shipping name: Dinitrophenol, wetted

# 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Flammable solid

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Fire Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know Components

Water CAS-No.: 7732-18-5 3,4-Dinitrophenol CAS-No.: 577-71-9

#### **New Jersey Right To Know Components**

Water CAS-No.: 7732-18-5 3,4-Dinitrophenol CAS-No.: 577-71-9

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION

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

5/23/2012