## MATERIAL SAFETY DATA SHEET

# Pamidronate, Disodium Salt: sc-203178



2145 Delaware Avenue

The Power to Question

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

**Product name** Pamidronate, Disodium Salt Catalog # sc-203178

Santa Cruz Biotechnology, Inc. Supplier Chemical formula C<sub>3</sub>H<sub>9</sub>NO<sub>7</sub>P<sub>2</sub> 2Na

Santa Cruz, California 95060 3-Amino-1-hydroxypropylidenebisphosphonic Acid, Disodium Salt, 800.457.3801 or 831.457.3800

Pentahydrate

### Composition / information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	EC Number	Symbol	R-Phrases
Pamidronate Disodium	109552-15-0	260-647-1	Т	R20/21/22, R61

#### Hazards identification 3.

Physical/chemical hazards : Not applicable.

Human health hazards : WARNING!

MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED

MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA.

#### 4. First-aid measures

#### First-Aid measures

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

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious Ingestion 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. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

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

Effects and symptoms

Inhalation Hazardous in case of inhalation. Ingestion Hazardous in case of ingestion.

**Skin Contact** Hazardous in case of skin contact (permeator).

**Aggravating conditions** Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in 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

products

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), phosphates. Some metallic oxides.

Special fire-fighting procedures

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

**Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

#### Accidental release measures

Personal precautions

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. 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.

Large Spill and Leak

Use a shovel to put the material into a convenient waste disposal container.

#### 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 ingest. Do not breathe dust. Avoid contact with skin. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label.

Storage

: Keep container tightly closed. Keep container in a cool, well-ventilated area.

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, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

**Ingredient Name** 

**Occupational Exposure Limits** 

Not available

Personal protective equipment

Pamidronate Disodium Pentahydrate

Respiratory system

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

Skin and body : Lab coat Hands : Gloves.

Eyes :

**Protective Clothing (Pictograms)** 

Safety glasses.





## 9. Physical and chemical properties

Physical state : Solid. (Crystalline solid.)

Color : White

Molecular Weight

Solubility : Easily soluble in cold water.

Flash point : Not available.

Explosive properties: 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.

## Stability and reactivity

Stability : The product is stable.

Conditions to avoid : Hygroscopic; keep container tightly closed.

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

## 11. Toxicological information

RTECS # : SZ6522666

Local effects

Skin irritation : Not available.

LD50: Not available. Acute toxicity

LC50: Not available.

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or Chronic toxicity

many human organs.

Other Toxic Effects on Humans : Not available.

Hazardous in case of skin contact (permeator), of ingestion, of inhalation.

May cause congenital malformations in the foetus.

Not available.

Specific effects

Carcinogenic effects Not available Mutagenic effects Not available Reproduction toxicity Not available

Classified POSSIBLE for human. Teratogenic effects

#### **Ecological information 12.**

**Ecotoxicity** : Not available.

Toxicity of the Products of Biodegradation

The products of degradation are less toxic than the product itself.

#### Disposal considerations

Contaminated packaging

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

### Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class : Not controlled under ADR (Europe).

Sea

IMDG Class Not controlled under IMDG

Air

IATA-DGR Class : Not controlled under IATA.

Not applicable. **Special Provisions for** 

Transport

## Regulatory information

#### **EU Regulations**

Hazard symbol(s)

Safety Phrases



Classification Toxic

Risk Phrases R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R61- May cause harm to the unborn child.

S36- Wear suitable protective clothing.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- Pamidronate Disodium **Contains** 

U.S. Federal Regulations 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

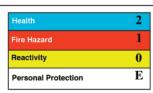
Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found.

HCS Classification
WHMIS (Canada)

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



#### Notice to Reader

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.

### **Emergency Contact:**

Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800 or Luis Yanez 831.251.2170