# 3-Deoxyglucosone: sc-220865



## MATERIAL SAFETY DATA SHEET

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	3-Deoxyglucosone
Product Number:	sc-220865
0	

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** No known OSHA hazards Not a dangerous substance according to GHS. HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA** Rating Health hazard: 0 Fire: 0 **Reactivity Hazard:** 0 **Potential Health Effects** Inhalation May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. Skin Eyes May cause eye irritation. May be harmful if swallowed. Ingestion

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:3-Deoxy-D-erythro-hexosuloseFormula:C6H10O5Molecular Weight:162.14CAS #:4084-27-9No ingredients are hazardous according to OSHA criteria.

## 4. FIRST AID MEASURES

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. 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.

## **5. FIREFIGHTING MEASURES**

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Special protective equipment for firefighters** Wear self contained breathing apparatus for fire fighting if necessary. **Hazardous combustion products** Hazardous decomposition products formed under fire conditions - carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Store at -20° C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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

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

### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

solid

Form
Melting point/freezing point
Flash point
Autoignition temperature
Upper explosion limit
Density
Relative vapor density
Odor Threshold
Partition coefficient
n-octanol/water

no data available pH Boiling point Ignition temperature Lower explosion limit Vapor pressure Water solubility Odor Evaporation rate no data available no data available

## **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 Hazardous decomposition products Hazardous decomposition products formed under fire conditions - carbon oxides Other decomposition products no data available

### **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 Genotoxicity in vitro - Hamster - Lungs Cytogenetic analysis 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. No component of this product present at levels greater than or equal to 0.1% is identified as a NTP: known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a OSHA: 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. May be harmful if absorbed through skin. May cause skin irritation. Skin May cause eye irritation. Eves 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 no data available Bioaccumulative potential no data available PBT and vPvB assessment no data available Persistence and degradability no data available Mobility in soil no data available Other adverse effects no data available

## **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)IMDGIATANot dangerous goodsNot dangerous goodsNot dangerous goods

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

No known OSHA hazards 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 No SARA Hazards **Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components 3-Deoxyglucosone CAS-No. 4084-27-9 **New Jersey Right To Know Components** 3-Deoxyglucosone CAS-No. 4084-27-9

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 guide. The burden of safe use of this material rests entirely with the user.

10/14/2013