

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Zinc sulfate heptahydrate: sc-216070



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION 1.1 Product Identifiers

Product Identifiers Product Name: Product Number:	Zinc sulfate heptahydrate sc-216070
Supplier: Emergency:	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, CA 95060 800.457.3801 or 831.457.3800 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

2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements Pictogram



Signal word	Danger			
Hazard statement(s)				
H302	Harmful if swallowed.			
H318	Causes serious eye damage.			
H410	Very toxic to aquatic life with long lasting effects.			
Precautionary statement(s)				
P264	Wash skin thoroughly after handling.			
P270	Do not eat, drink or smoke when using this product.			
P273	Avoid release to the environment.			
P280	Wear protective gloves/ eye protection/ face protection.			
P301 + P312	IF SWALLOWED. Call a POISON CENTER or doctor/ physician if you feel			
	unwell.			
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove			
	contact lenses, if present and easy to do. Continue rinsing.			
P310	Immediately call a POISON CENTER or doctor/ physician.			
P330	Rinse mouth.			
P391	Collect spillage.			
P501	Dispose of contents/ container to an approved waste disposal plant.			
Hazards not otherwise classified (HNOC) or not covered by GHS				

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2.3 Hazard
none
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3. COMPOSITION/INFORMATION ON INGREDIENTS

 3.1
 Substances

 Formula:
 ZnSO4•7H2O

 Molecular Weight:
 287.55 g/mol

 CAS-No.:
 7446-20-0

 EC-No.:
 231-793-3

 Index-No.:
 030-006-00-9

 Classification:
 Acute Tox. 4; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H318, H410

 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures 4.1

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. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

- 4.2 Most important symptoms and effects, both acute and delayed
 - The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed 4.3 no data available

5. FIREFIGHTING MEASURES

- Extinguishing media 5.1 Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special hazards arising from the substance or mixture 5.2 Sulphur oxides, Borane/boron oxides, Zinc/zinc oxides Advice for firefighters
- 5.3 Wear self contained breathing apparatus for fire fighting if necessary. 5.4 Further information
 - The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- **Environmental precautions** 6.2 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 6.3 Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections 6.4 For disposal see section 13.

7. HANDLING AND STORAGE

- Precautions for safe handling 7.1 Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Hygroscopic. Store at room temperature. 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters 8.1

- Components with workplace control parameters
- Contains no substances with occupational exposure limit values.
- 8.2 **Exposure controls**
 - Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face 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 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.

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.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Control of environmental exposure

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

Odor

9. PHYSICAL AND CHEMICAL PROPERTIES 9.1

Information on basic physical and chemical properties Form crystalline 4.0 - 6.0 at 50 g/l at 20 °C Odor threshold pН Melting/freezing point range > 500 °C Flash point 6.00 °C - closed cup Flammability (solid, gas) no data Vapor pressure no data Relative density 1.957 g/cm3 at 20 °C Auto-ignition temperature no data Water solubility no data Oxidizing properties no data Bulk density 800 - 1,000 kg/m3

no data Initial boiling point/boiling range 97 °C - lit. Evaporation rate no data Upper/lower explosive limits no data Vapor density no data Viscosity no data Decomposition temperature no data Explosive properties no data Partition coefficient: no data noctanol/water

no data

Other safety information 9.2 no data available

10. STABILITY AND REACTIVITY

- 10.1 Reactivity
 - no data available
- 10.2 **Chemical stability**
- Stable under recommended storage conditions. Possibility of hazardous reactions 10.3
- no data available 10.4 Conditions to avoid
- no data available
- 10.5 Incompatible materials
- Strong oxidizing agents 10.6 Hazardous decomposition products Other decomposition products - no data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity LD50 Oral - rat - 2,150 mg/kg Inhalation: no data available Dermal: no data available LD50 Intraperitoneal - rat - 200 mg/kg Skin corrosion/irritation no data available Serious eye damage/eye irritation Eyes - rabbit Result: Moderate eye irritation (Draize Test) Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as IARC: 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 Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information RTECS: ZH5300000

Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin., burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, airway resistance, Cardiovascular effects., pulmonary edema, congestive heart failure Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Toxicity to fish mortality LC50 other fish 1 10 mg/l 96.0 h 12.2 Persistence and degradability
- no data available
- 12.3 Bioaccumulative potential
- no data available
- 12.4 Mobility in soil no data available
- 12.5 PBT and vPvB assessment no data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. **Contaminated packaging** Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3077 Packing group: III Class: 9 Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc sulfate heptahydrate) Reportable Quantity (RQ): 1000 lbs Marine pollutant: Poison Inhalation Hazard: No IMDG UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc sulfate heptahydrate) Marine pollutant: No ΙΑΤΑ UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc sulfate heptahydrate) **Further information** EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

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 The following components	s are subject to reporting levels established	by SARA Title III, Section 313:		
Zinc sulfate heptahydrate		CAS-No. 7446-20-0		
SARA 311/312 Hazards				
Acute Health Hazard, Chr				
Massachusetts Right To I Zinc sulfate heptahydrate	Know Components	CAS-No. 7446-20-0		
		070-110. 7440-20-0		
Pennsylvania Right To Kr Zinc sulfate heptahydrate		CAS-No. 7446-20-0		
New Jersey Right To Kno	w Components			
Zinc sulfate heptahydrate		CAS-No. 7446-20-0		
California Prop. 65 Comp	ponents			
This product does not contain any chemicals known to State of California to cause cancer, birth defects,				
or any other reproductive	harm.			
16. OTHER INFORMATIO				
Acute Tox.	s referred to under sections 2 and 3. Acute toxicity			
Aquatic Acute	Acute aquatic toxicity			
Aquatic Chronic	Chronic aquatic toxicity			
Eye Dam.	Serious eye damage			
H302	Harmful if swallowed.			
H318	Causes serious eye damage.			
H400	Very toxic to aquatic life.			
	Very toxic to aquatic life with long lasting	effects.		

H410 Verý toxic to aquatic life with long lasting effects. HMIS Rating Health hazard: 2 Chronic Health Hazard: * Flammability: 0 Physical Hazard: 0 NFPA Rating Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0 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. 8/27/2014

8/27/2014