Silver(I) oxide: sc-253562



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Product Number:	Silver(I) oxide sc-253562
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 Oxidizer, Irritant GHS Classification Oxidizing solids (Category 2) Acute toxicity, Oral (Category 5) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity - single exposure (Category 3) GHS Label elements, including precautionary statements Pictogram



Signal word **Hazard statement(s)** H272 H303 H315 H319 H335 **Precautionary statement(s)** P220 P261 P305 + P351 + P338

May intensify fire; oxidizer. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Keep/Store away from clothing/ combustible materials. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard:	2		
Flammability:	0		
Physical hazards:	2		
NFPA Rating			
Health hazard:	2		
Fire:	0		
Reactivity Hazard:	2		
Special hazard.:	OX		

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula :Ag2OMolecular Weight :231.74 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
Disilver oxide 20667-12-3	243-957-1	_	_
20007-12-3	240-907-1	-	-

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. 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.

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. - Silver/silver oxides

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). 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. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection. Store at room temperature.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Light sensitive. Keep in a dry place.

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 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).

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

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Melting point/freezing point Flash point Autoignition temperature Upper explosion limit Density Relative vapor density Evaporation rate powder no data available no tapplicable no data available no data available 7.143 g/cm3 no data available no data available pH Boiling point Ignition temperature Lower explosion limit Vapor pressure Water solubility Odor Threshold Partition coefficient: n-octanol/water no data available insoluble 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 Light. Materials to avoid Strong oxidizing agents, Strong acids, Ammonia, Amines Hazardous decomposition products Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Silver/silver oxides Other decomposition products no data available Thermal decomposition 230 °C

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 LD50 Oral - rat - 2,820 mg/kg Inhalation LC50 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) Inhalation - May cause respiratory irritation. 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. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. Eves Signs and Symptoms of Exposure May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver). 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: VW4900000

12. ECOLOGICAL INFORMATION

Toxicity no data available Persistence and degradability no data available Bioaccumulative potential no data available Mobility in soil no data available PBT and vPvB assessment no data available Other adverse effects no data available

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 1479	Class: 5.1	Packing group: II				
Proper shipping name: Oxidizing	solid, n.o.s. (Disilve	r oxide)				
Reportable Quantity (RQ):						
Marine pollutant: No						
Poison Inhalation Hazard: No						
IMDG						
UN number: 1479	Class: 5.1	Packing group: II	EMS-No: F-A, S-Q			
Proper shipping name: OXIDIZIN			,			
Marine pollutant: No						
IATA						
UN number: 1479	Class: 5.1	Packing group: II				
Proper shipping name: Oxidizing						
15. REGULATORY INFOR	MATION					
OSHA Hazards						
Oxidizer, Irritant						
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 are su	ubject to reporting lev	els established by SARA Title II	I, Section 313:			
Disilver oxide	, , ,	5	CAS-No. 20667-12-3			
SARA 311/312 Hazards						
	Hozard					
Reactivity Hazard, Acute Health						
Massachusetts Right To Know C						
No components are subject to th		ght to Know Act.				
Pennsylvania Right To Know Co	mponents					
Disilver oxide			CAS-No. 20667-12-3			
New Jersey Right To Know Com	ponents					
Disilver oxide			CAS-No. 20667-12-3			
California Prop. 65 Components	2					

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.

08/07/2014