Hydrazine dihydrochloride: sc-250125



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Product Number:	Hydrazine dihydrochloride sc-250125
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 Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Skin sensitizer, Carcinogen Target Organs Nerves, Blood, Liver, Kidney GHS Classification Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 3) Acute toxicity, Dermal (Category 3) Skin sensitization (Category 1) Carcinogenicity (Category 1B) Acute aquatic toxicity (Category 1) Chronic aquatic toxicity (Category 1) GHS Label elements, including precautionary statements Distogram

Pictogram



Signal word	Danger
Hazard statement(s)	
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
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.
P501	Dispose of contents/ container to an approved waste disposal plant.
HMIS Classification	
Health hazard :	2
Flammability :	0
Physical hazards :	0

NFPA Rating Health hazard : 2 Fire : 0 **Reactivity Hazard :** 0 **Potential Health Effects** Inhalation Toxic if inhaled. May cause respiratory tract irritation. Skin Toxic if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Ingestion Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula:H4N2 · 2HCIMolecular Weight:104.97

CAS-No.	EC-No.	Index-No.	Concentration
Hydrazine dihydrochloride 5341-61-7	226-283-2	007-014-00-6	
5341-01-7	220-283-2	007-014-00-6	-

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. FIREFIGHTING MEASURES

Conditions of flammability Not flammable or combustible. 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 - nitrogen oxides (NOx), Hydrogen chloride gas

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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. Handle under inert gas. Protect from moisture. 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 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

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

solid 200 °C not applicable no data available no data available 1.42 g/mL at 25 °C no data available no data available 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, Bases
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions - nitrogen oxides (NOx), Hydrogen chloride gas
Other decomposition products
no data available

11. TOXICOLOGICAL INFORMATION

11. IOXI	COLOGICAL INFORMATIO	N		
Acute toxic	city			
Oral	Oral LD50 no data available			
Inha	Inhalation LC50 no data available			
Derr	mal LD50 no data available			
Othe	er information on acute toxicity no	o data available		
	sion/irritation			
no data ava				
	e damage/eye irritation			
no data ava				
	y or skin sensitization			
	allergic skin reaction.			
	mutagenicity			
	ty in vitro - Hamster - ovary	Sister chromatid exchange		
Carcinoger				
	ıman carcinogen			
IARC:		esent at levels greater than or equal to 0.1% is identified as human carcinogen by IARC.		
ACGIH:	No component of this product pl carcinogen or potential carcinog	resent at levels greater than or equal to 0.1% is identified as a en by ACGIH.		
NTP:	No component of this product p known or anticipated carcinoger	resent at levels greater than or equal to 0.1% is identified as a by NTP.		
OSHA:	No component of this product po carcinogen or potential carcinog	resent at levels greater than or equal to 0.1% is identified as a en by OSHA.		
Reproduct	ive toxicity			
no data ava				
Teratogeni	city			
no data ava	ailable			
Specific ta	rget organ toxicity - single expos	ure (Globally Harmonized System)		
no data ava	ailable			
Specific ta	rget organ toxicity - repeated exp	osure (Globally Harmonized System)		
no data ava				
Aspiration				
no data ava				
Potential health effects				
Inhalation Toxic if inhaled. May cause respiratory tract irritation.				
Ingestion Toxic if swallowed.				
Skin Toxic if absorbed through skin. May cause skin irritation.				
Eyes May cause eye irritation.				
Signs and Symptoms of Exposure				
Cough, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, May cause				
convulsions, Liver injury may occur, Kidney injury may occur, Damage to the lungs.				
Synergistic effects				
no data available Additional Information				
RTECS: No	or available			
12. ECOI	LOGICAL 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 Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2811	Class: 6.1	Packing group: III	
Proper shipping name: Toxic soli	ds, organic, n.o.s. (Hydrazi	ne dihydrochloride)	
Reportable Quantity (RQ):			
Marine pollutant: No			
Poison Inhalation Hazard: No			
IMDG			
UN number: 2811	Class: 6.1	Packing group: III	EMS-No: F-A, S-A
Proper shipping name: TOXIC SC	DLID, ORGANIC, N.O.S. (H	ydrazine dihydrochloride)	
Marine pollutant: No			
ΙΑΤΑ			
UN number: 2811	Class: 6.1	Packing group: III	
Proper shipping name: Toxic soli	d, organic, n.o.s. (Hydrazin	e dihydrochloride)	

15. REGULATORY INFORMATION

OSHA Hazards

Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Skin sensitizer, Carcinogen.

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

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components Hydrazine dihydrochloride	CAS-No. 5341-61-7
New Jersey Right To Know Components	
Hydrazine dihydrochloride	CAS-No. 5341-61-7

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.

05/29/2014