# Trypsin: sc-391055



## MATERIAL SAFETY DATA SHEET

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

Product Name: Product Number:	Trypsin sc-391055
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, Skin and respiratory sensitizer, Irritant Target Organs Lungs GHS Classification Skin irritation (Category 2) Eye irritation (Category 2A) Respiratory sensitization (Category 1) Skin sensitization (Category 1) Specific target organ toxicity - single exposure (Category 3) GHS Label elements, including precautionary statements

Pictogram



Signal word	Danger
Hazard statement(s)	-
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
P342 + P311	lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
HMIS Classification	
Health hazard:	2
Chronic Health Hazard:	*
<b>Flammability</b> :	0
Physical hazards:	0

NFPA Rating	
Health hazard:	2
Fire:	0
Reactivity Haza	<b>rd</b> : 0
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**

Molecular Weight: 23.4 kDa

CAS-No.	EC-No.	Index-No.	<b>Concentration</b>
Trypsin	000.050.0	0.17.010.00.7	
9002-07-7	232-650-8	647-010-00-7	-

## 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**

#### Conditions of flammability

Not flammable or combustible. Suitable extinguishing media

#### 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 - Nature of decomposition products not known.

## 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

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. Product is sensitive to light and moisture. Keep in a dry place. Store at 4 °C.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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

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 Odor Threshold Partition coefficient: n-octanol/water solid 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 - Nature of decomposition products not known.
Other decomposition products
no data available

Acute toxic Or In De Ot Skin corro no data ava Serious ey no data ava Respirator May cause Germ cell no data ava Carcinoge	ral LD50 LD50 Oral - rat - > 5,000 mg/kg halation LC50 no data available ermal LD50 no data available ther information on acute toxicity no data available ision/irritation ailable re damage/eye irritation ailable ry or skin sensitization allergic respiratory and skin reactions mutagenicity ailable nicity	
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.	
no data ava Teratogeni no data ava Specific ta no data ava Specific ta no data ava Aspiration no data ava Potential h In Si Signs and To the bess investigate Synergisti no data ava Additional RTECS: YN	icity ailable rget organ toxicity - single exposure (Globally Harmonized System) ailable rget organ toxicity - repeated exposure (Globally Harmonized System) ailable hazard ailable health effects halation May be harmful if inhaled. Causes respiratory tract irritation. gestion May be harmful if swallowed. sin May be harmful if absorbed through skin. Causes skin irritation. res Causes eye irritation. Symptoms of Exposure t of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly d. c effects ailable Information ISO75000	
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. 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.

ΙΑΤΑ

Not dangerous goods

Contaminated packaging

Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

DOT (US)	IMDG	
Not dangerous goods	Not dangerous goods	

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Target Organ Effect, Skin and respiratory sensitizer, 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 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 Listed Pennsylvania Right To Know Components Trypsin CAS-No.9002-07-7 New Jersey Right To Know Components Trypsin CAS-No.9002-07-7 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.

12/03/2013