

Acrylamide-d3: sc-210757



The Power to Question

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Acrylamide-d3
Product Number: sc-210757
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

Classification of the Substance or Mixture and Label Elements

GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 3)

Acute toxicity, Oral (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Skin sensitization (Category 1)

Germ cell mutagenicity (Category 1B)

Carcinogenicity (Category 1B)

Reproductive toxicity (Category 2)

Acute aquatic toxicity (Category 3)

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Pictogram



Signal Word

Danger

GHS Hazard Statements

H301/H311

Toxic if swallowed or in contact with skin.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H340

May cause genetic defects.

H350

May cause cancer.

H361

Suspected of damaging fertility or the unborn child.

H402

Harmful to aquatic life.

GHS Precautionary Statements

P201

Obtain special instructions before use.

P280

Wear protective gloves/ protective clothing.

P301/P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P305/P351/P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308/P313

IF exposed or concerned: Get medical advice/ attention.

HMIS Classification

Health Hazard: 2
Chronic Health Hazard: *
Flammability: 1
Physical Hazards: 0

WHMIS Classification (Canada)

D1B	Toxic Material Causing Immediate	Toxic by ingestion
D2A	and Serious Toxic Effects	Toxic by skin absorption
D2B		Toxic by inhalation
		Teratogen
		Reproductive hazard
		Moderate Skin irritant
		Moderate eye irritant
		Skin sensitizer
		Mutagen

Potential Health Effects

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula: C₃H₂D₃NO
Chemical Weight: 74.10
CAS #: 122775-19-3

4. FIRST AID MEASURES**General Advice**

Consult a physician. If medical attention is required, show this safety data sheet to the doctor. Move out of the dangerous area.

If Inhaled

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician.

In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. 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.

Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures**

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists. Adequate ventilation must be provided to ensure dusts or mists are not inhaled.

Environmental Precautions

Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13). Keep in suitable closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Ventilation and proper handling are to be used to prevent the formation of dusts and mists. Normal measures for preventative fire protection.

Conditions for Safe Storage, Including any Incompatibilities

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Acrylamide - CAS# 79-06-1

Ontario - Canada TWA 0.03 mg/m³

ACGIH - USA TWA 0.03 mg/m³

Skin absorption significantly contributes to overall exposure.

Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

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 or 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, if needed after risk assessment. 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	Solid	Odor	No data available
Odor Threshold	No data available	pH	No data available
Melting Point/Freezing Point	82-84° C	Boiling Point/Boiling Range	No data available
Flash point	138° C closed cup	Evaporation Rate	No data available
Flammability (Solid/Gas)	No data available	Upper/Lower Explosive Limits	No data available
Vapor Pressure	No data available	Vapor Density	No data available
Relative Density	No data available	Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available	Viscosity	No data available
Explosive Properties	No data available	Oxidizing Properties	No data available
Solubility	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Conditions to Avoid

No data available

Incompatible Materials

Strong oxidizing materials. Acids. Iron and iron salts. Copper. Brass. Free radical initiators.

Hazardous Decomposition Products

Hazardous decomposition product formed under fire conditions: carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 (oral - rat) 124 mg/kg

LC50 (inhalation - rat) > 1500 mg/m3/4h

LD50 (dermal - rat) 400 mg/kg

Corrosion/Irritation

Skin, eye and respiratory tract irritant

Sensitization

May cause allergic skin reactions in sensitive individuals.

Carcinogenicity

IARC: Group 2A-Probably carcinogenic to humans (Acrylamide)

Reproductive Toxicity/Teratogenicity

Presumed human reproductive toxicant/teratogen.

Potential Health Effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Skin	Toxic if absorbed through the skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Toxic if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

Additional Information

RTECS: AS3325000

12. ECOLOGICAL INFORMATION

Toxicity

Harmful to aquatic life.

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

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to 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: 2074 Class: 6.1 Packing group: III
Proper shipping name: Acrylamide, solid
Reportable Quantity (RQ): 5000 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG

UN number: 2074 Class: 6.1 Packing group: III EMS-No: F-A, S-A
Proper shipping name: ACRYLAMIDE, SOLID
Marine pollutant: No

IATA

UN number: 2074 Class: 6.1 Packing group: III
Proper shipping name: Acrylamide, solid

15. REGULATORY INFORMATION

Canada-DSL/NDSL Status

This product or a component of the product is registered on the Canadian DSL/NDSL.

WHMIS Classification

D1B	Toxic Material Causing Immediate	Toxic by ingestion
D2A	and Serious Toxic Effects	Toxic by skin absorption
D2B		Toxic by inhalation
		Teratogen
		Reproductive hazard
		Moderate Skin irritant
		Moderate eye irritant
		Skin sensitizer
		Mutagen

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.

03/25/2014