

# Dimethylamine-d7: sc-300482

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name: Dimethylamine-d7  
 Catalog Number: sc-300482  
 Supplier: Santa Cruz Biotechnology, Inc.  
 2145 Delaware Ave.  
 Santa Cruz, California 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

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>
DIMETHYLAMINE-D7	22024-52-8	Yes

Formula:  $(CD_3)_2ND$

Molecular Weight: 52.13

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Flammable (USA) Extremely Flammable (EU). Corrosive.  
 Harmful by inhalation and if swallowed. Causes burns.  
 Danger: flammable, corrosive, and toxic liquid and gas under pressure. Readily absorbed through skin. Lachrymator.  
 Target organ(s): Liver.

#### HMIS RATING

HEALTH: 3\*  
 FLAMMABILITY: 4  
 REACTIVITY: 1

#### NFPA RATING

HEALTH: 3  
 FLAMMABILITY: 4  
 REACTIVITY: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### SECTION 4 - FIRST AID MEASURES

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

#### EYE EXPOSURE

Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water. Assure adequate flushing of the eyes by separating the eyelids with fingers.

### SECTION 5 - FIRE FIGHTING MEASURES

#### FLAMMABLE HAZARDS

Flammable Hazards: Yes

#### EXPLOSION HAZARDS

May form explosive mixtures with air Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

#### FLASH POINT

20 °F - 6.7 °C Method: closed cup

#### EXPLOSION LIMITS

Lower: 2.8 % Upper: 14.4 %

#### AUTOIGNITION TEMP

401 °C

#### FLAMMABILITY

N/A

#### EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

#### FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
 Specific Hazard(s): Extremely flammable. Vapor may travel considerable distance to source of ignition and flash back. Emits toxic fumes under fire conditions.  
 Specific Method(s) of Fire Fighting: Do not extinguish burning gas if flow cannot be shut off immediately. Use water spray or fog nozzle to keep cylinder cool. Move cylinder away from fire if there is no risk.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area and keep personnel upwind. Shut off all sources of ignition. Shut off leak if there is no risk.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Ventilate area and wash spill site after material pickup is complete.

### SECTION 7 - HANDLING AND STORAGE

#### HANDLING

User Exposure: Do not breathe gas. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

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## STORAGE

Suitable: Keep tightly closed. Keep away from heat, sparks, and open flame. Use with equipment rated for cylinder pressure, and of compatible materials of construction. Close valve when not in use and when empty. Make sure cylinder is properly secured when in use or stored. Cylinder temperature should not exceed 125°F (52°C).  
Unsuitable: Store away from heat and direct sunlight

## SPECIAL REQUIREMENTS

Contents under pressure.

## SECTION 8 - EXPOSURE CONTROLS / PPE

### ENGINEERING CONTROLS

Warning: suck-back into cylinder may cause rupture. Use back-flow-preventive device in piping.

### WORK PRACTICES

Store and use with adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.  
Hand: Compatible chemical-resistant gloves.  
Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

### EXPOSURE LIMITS

<i>Country</i>	<i>Source</i>	<i>Type</i>	<i>Value</i>
Poland		NDS	9 MG/M3
Poland		NDSch	18 MG/M3
Poland		NDSP	—

## SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

Appearance	Physical State: Compressed gas	
	Color: Colorless	
Property	Value	At Temp. or Pressure
pH	N/A	
BP/BP Range	7 °C	760 mmHg
MP/MP Range	- 93.0° C	
Freezing Point	N/A	
Vapor Pressure	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Bulk Density	N/A	
Odor Threshold	N/A	
Volatile%	N/A	
VOC Content	N/A	
Water Content	N/A	
Solvent Content	N/A	
Evaporation Rate	N/A	
Viscosity	N/A	
Surface Tension	N/A	
Partition Coefficient	N/A	
Decomposition Temp.	N/A	

Flash Point	20 °F - 6.7 °C	closed cup
Explosion Limits	Lower: 2.8 % Upper: 14.4 %	
Flammability	N/A	
Autoignition Temp	401° C	
Refractive Index	N/A	
Optical Rotation	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	
	N/A = not available	

## SECTION 10 - STABILITY AND REACTIVITY

### STABILITY

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### ROUTE OF EXPOSURE

Skin Contact: Causes burns.  
Skin Absorption: May be harmful if absorbed through the skin.  
Readily absorbed through skin.  
Eye Contact: Lachrymator. Causes burns.  
Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Can cause rapid suffocation. Harmful if inhaled.  
Ingestion: May be harmful if swallowed.

### TARGET ORGAN(S) OR SYSTEM(S)

Liver.

### SIGNS AND SYMPTOMS OF EXPOSURE

Exposure of the eyes to high concentrations may result in ulceration of the conjunctiva and cornea with possible destruction of all ocular tissues. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

## SECTION 12 - ECOLOGICAL INFORMATION

No data available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

### APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

### APPROPRIATE METHOD OF DISPOSAL OF CONTAMINATED PACKAGING

Caution: no-return cylinder. Do not reuse. Empty cylinder will contain hazardous residue. Follow proper disposal techniques.

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## SECTION 14 - TRANSPORT INFORMATION

### DOT

Proper Shipping Name: Dimethylamine, anhydrous  
UN#: 1032  
Class: 2.1  
Packing Group: None  
Hazard Label: Flammable gas  
PIH: Not PIH

### IATA

Proper Shipping Name: Dimethylamine, anhydrous  
IATA UN Number: 1032  
Hazard Class: 2.1  
Not Allowed - Aircraft: Cargo aircraft only. Not permitted on passenger aircraft.

## SECTION 15 - REGULATORY INFORMATION

### EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F+Xn  
Indication of Danger: Extremely Flammable. Harmful.  
R: 12-20-37/38-41  
Risk Statements: Extremely flammable. Harmful by inhalation. Irritating to respiratory system and skin. Risk of serious damage to eyes.  
S: 16-26-39  
Safety Statements: Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

### US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Flammable (USA) Extremely Flammable (EU). Corrosive.  
Risk Statements: Harmful by inhalation and if swallowed. Causes burns.  
Safety Statements: Keep in a cool place. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Do not empty into drains. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
US Statements: Danger: flammable, corrosive, and toxic liquid and gas under pressure. Readily absorbed through skin.  
Lachrymator. Target organ(s): Liver.

### UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes  
DEMINIMIS: 1 %  
NOTES: This product is subject to SARA section 313 reporting requirements.

### CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: No  
NDSL: No

## SECTION 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.*

10/5/2010