

Safety Data Sheet

Release 1.0
Revision 10/05/2020
Date of issue 05/29/2021



page 1 of 6

1 Identification of the substance

Identification of the substance

Identification of the substance 2-(Diethylamino)ethanethiol

Additional identification (2-Mercaptoethyl)diethylamine;2-N,N-Diethylaminoethanethiol; Diethylcysteamine

Biosynth catalog no. FD15529

REACH No. A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.

Use of the substance/preparation

Identified uses basic Intermediates

Restriction on use not for food or drug use, for laboratory use only

Company Carbosynth Ltd
8&9 Old Station Business Park
GB-COMPTON RG20 6NE

Phone +44 1635 578444

Mail customerservice@biosynth-carbosynth.com

Emergency Number

Phone Office hours: +44 1635 578444

2 Hazards identification

Health Hazards

acute toxicity (Category 3)

acute toxicity (Category 3)

acute toxicity (Category 3)

Environmental Hazards

not classified

Physical Hazards

not classified

Possible Hazards (Summary)

GHS Labeling

Regulatory List
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol
GHS06 skull and crossbones

Pictogram

*Signal Word*

Danger Danger

*Hazard Statement*H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.*Precautionary Statement*P270 Do no eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician.
P302 IF ON SKIN:
P352 Wash with plenty of soap and water.
P304 IF INHALED:
P340 Remove casualty to fresh air and keep at rest in a position comfortable for breathing.
P501 Dispose of contents / container in accordance with local / regional / national / international regulations.*Additional Information*

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients**Substance related information**

<i>Substance name</i>	2-(Diethylamino)ethanethiol
<i>Synonymes</i>	(2-Mercaptoethyl)diethylamine; 2-N,N-Diethylaminoethanethiol; Diethylcysteamine
<i>Cas No.</i>	[100-38-9]
<i>Formula</i>	C ₆ H ₁₅ NS

4 First aid measures**First Aid: Eye**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

Hazards During Fire-Fighting

toxic fumes

Protective Equipment for Fire-Fighting

Wear a self-contained breathing apparatus and chemical protective clothing.

Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

Personal Precautions

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

Methods for Cleaning or Taking Up

not available

Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

Handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

Storage

Storage temperature

store at 2°C - 8°C

Storage condition

keep dry

Storage Requirements

Keep container tightly closed when not in use, since hygroscopic. Keep away from incompatible substances.

8 Exposure controls/personal protection

Exposure controls

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

Personal Protective Equipment**Respiratory Protection**

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties**Color**

colorless, orange

Form

clear liquid

Phase Transition Liquid/Gas

74 °C

Molar Mass

133.26 g/mol

Density

0.875 g/cm³

10 Stability and reactivity**Conditions to Avoid**

incompatible materials, moisture

Substances to Avoid

water, strong oxidizers

Decomposition Products

nitrogen oxides (NO_x), carbon dioxide (CO₂), sulphur oxides, carbon monoxide

11 Toxicological information**Acute Toxicity**

LD50 oral, Mouse, 231 mg/kg

Other Relevant Toxicity Information

We are not aware of any toxicology data.

12 Ecological Information**Biodegradation**

no data available

Bioaccumulation

no data available

Distribution in Environment

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

Road Transport (ADR/GGVS)

UN No. 2810

Class(es) 6.1

Packaging group III

Proper Shipping Name Toxic solid, organic, n.o.s. (2-(Diethylamino)ethanethiol)

Air Transport (IATA)

UN No. 2810

Class(es) 6.1

Packaging group III

Proper Shipping Name Toxic solid, organic, n.o.s. (2-(Diethylamino)ethanethiol)

15 Other regulations

Other Regulations

not available

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
2-(Diethylamino)ethanethiol	-----	-----	-----

16 Additional information

GHS Labeling*Regulatory List*

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS06 skull and crossbones

Signal Word

Danger Danger

Hazard Statement

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

Precautionary Statement

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician.

P302 IF ON SKIN:

P352 Wash with plenty of soap and water.

P304 IF INHALED:

P340 Remove casualty to fresh air and keep at rest in a position comfortable for breathing.

P501 Dispose of contents / container in accordance with local / regional / national / international regulations.