Safety Data Sheet

1. Identification of the substance

1.1. Product identifiers: Product Name: Diethanolamine

Synonyms:

Catalog number: QE-5399 CAS Number: 111-42-2

1.2. Identified use: Laboratory chemicals, for scientific research and development only.

1.3. Supplier: Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-

635-8950. Email: sales@combi-blocks.com.

1.4. Emergency Contact: During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. Af-

ter business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (interna-

tional).

2. Hazards identification

2.1. Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity,oral (Category 4), H302 Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 1), H318

Specific target organ toxicity, repeated exposure (Category 2), H373

Hazardous to the aquatic environment, long-term hazard (Category 3), H412

2.2. *GHS Label elements, including precautionary statements:*

Pictograms







Signal word Danger

Hazard statement(s).

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage

H373 May cause damage to organs through prolonged or repeated exposure

Harmful to aquatic life with long lasting effects

Precautionary statement(s).

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

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

P301+P312+P330 If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse

mouth.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses

if present and easy to do, continue rinsing. Immediately call a POISON CENTER or

doctor/physician.

P314 Get Medical advice/attention if you feel unwell.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients.

3.1. Substances

COMPONENT	CLASSIFICATION	CONCENTRATION
Diethanolamine	H302, H315, H318, H373, H412	≤ 100

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of 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: Remove victim to fresh air. In severe cases or if symptoms persist, seek medical attention.

In case of skin contact: Wash with soap and water.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed:

No data.

5. Fire fighting measures

5.1. Extinguishing media: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

5.2. Special hazards arising from the substance or mixture: Carbon monoxide, nitrogen oxides.

5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information: No data available.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

6.3. Methods and materials for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

6.4. Reference to other sections:

Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build up of electro-

static charge. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated

place. Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

7.3. Specific end use(s): Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

8.1. Control parameters:

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2. Exposure controls:

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation

location. Ensure adequate ventilation, especially in confined areas. Use only under a

chemical fume hood.

Personal protective equipment:

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin 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

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.,

The type of protective equipment must be selected according to the concentration and

amount of the dangerous substance at the specific workplace.

Respiratory protection: No protective equipment is needed under normal use conditions.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter

drains.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Odour:	No data
Odour Threshold:	No data
pH:	No data
Melting point/freezing point:	No date.
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporatoin rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data
Water solubility:	No data
Partition coefficient: n-octanol/water:	No data
Auto-ignition:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidizing properties:	No data
	Odour: Odour: Odour Threshold: pH: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporatoin rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Water solubility: Partition coefficient: n-octanol/water: Auto-ignition: Decomposition temperature: Viscosity: Explosive properties:

9.2. Other safety information:

Formula $C_4H_{11}NO_2$ Molecular weight 105.1CAS Number 111-42-2

10. Stability and reactivity

10.1. Reactivity No data

10.2. Chemical stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions No data

10.4. Conditions to avoid

10.5. Incompatible material Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously com-

bustible substances, substances which are dangerous when wet, oxidizing substances, or-

ganic peroxides, poisons, radioactive materials.

10.6. Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions: Carbon monoxide, nitrogen oxides.

Other decomposition products: No data
In the event of fire: See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Harmful if swallowed. .

Skin irritation/corrosion: No data available.

Eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitization:
Germ cell mutagenicity:
Carcinogenicity:
No data available.
No data available.
No data available.
No data available.

Specific target organ system toxicity - single exposure: No data available.

Specific target organ system toxicity - repeated exposure: May cause damage to organs through prolonged or re-

peated exposure.

Aspiration hazard: No data available.

Additional information: To the best of our knowledge, the chemical, physical and toxicological proper-

ties of this substance have not been thoroughly investigated.

12. Ecological information

12.1. Toxicity No data available.

12.2. Persistence and degradability Harmful to aquatic life with long lasting effects.

12.3. Bioaccumulative potential No data available
12.4. Mobility in soil No data available
12.5. Results of PBT and vPvB assessment No data available.
12.6. Other adverse effects No data available.

13. Disposal Considerations

13.1. Waste treatment methods

Product Arrange disposal as special waste, by licensed disposal company, in consultation with

local waste disposal authority, in accordance with national and regional regulations.

Contaminated packaging Dispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number: UN3077 Class: 9 Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT INCLUD-

ING WASTE) (Diethanolamine)

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.