

SAFETY DATA SHEET

Create Date: 2020-09-03

SECTION 1: COMPANY AND PRODUCT INFORMATION

1.1 Product identifiers

Product name : Diethylpyrocarbonate (DEPC)
Cat. Number : ZXB-06-108
CAS number : 1609-47-8
Synonyms : Diethyl dicarbonate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For research and laboratory use only.

1.3 Details of the supplier of the safety data sheet

Address : Hinter den Gärten
5689173 Lonsee
Deutschland

Email : info@zellx.de
Phone : +49(0)731 55211521
Fax : +49(0)731 55211719

1.4 Emergency telephone number

Emergency phone : +49(0)731 55211521

SECTION 2: HAZARDS IDENTIFICATION


2.1 Classification of substance or mixture

Flammable Liquid (Category 4), H227.
Acute toxicity, Oral (Category 4), H302.

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

Acute toxicity, Oral (Category 4), H302.
Flammable Liquid (Category 4), H227.

2.3 Label elements and precautionary statements

Pictogram : 

Signal word : Warning

Hazard statement(s) : H227 - Combustible liquid.
H302 - Harmful if swallowed.

Precautionary statement(s) : P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P264 - Wash skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P370+378 - In case of fire: Use for extinction.
P235+410 - Keep cool. Protect from sunlight
P501 - Dispose of contents/container to an approved waste disposal plant.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

No unclassified hazards known.

2.5 NFPA Rating

Health hazard : 2
Fire hazard : 2
Reactivity hazard : 0

2.6 HMIS Rating

Health hazard : 2
Chronic health hazard : -
Flammability : 2
Physical hazard : 0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance	CAS#	EC#	Concentration
Diethylpyrocarbonate (DEPC) M.F: C ₆ H ₁₀ O ₅ M.W: 162.14 g/mol	1609-47-8	-	>= 99%

3.2 Hazardous components & classification

Acute Tox. 4; Flammable Liquid. 4; H302, H227.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

In case of inhalation

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

In case of skin contact

Immediately wash with excess soap and water. If spilled on clothing, remove all affected clothing. Consult a physician if symptoms are severe or persistent.

In case of eye contact

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician if symptoms are severe or persistent.

In case of ingestion

Wash out mouth with water. Drink plenty of water. If subject is unconscious, do not give anything by mouth. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment indicated. Provide treatment in accordance with exhibited systems.

SECTION 5: FIREFIGHTING MEASURES

5.1 Conditions of flammability

Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

5.2 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

5.3 Special hazards arising from the substance

During a fire, highly toxic gases may be generated by thermal decomposition or combustion
– Carbon oxides.

5.4 Advice for firefighters

Wear protective gear, such as self-contained breathing apparatus prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid breathing vapors, mist or gas. Keep all unnecessary personnel away.

For personal protection see section 8

6.2 Environmental precautions

Prevent product from entering the drain.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material, discard.

For proper disposal see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear any necessary personal protective equipment.

For precautions see section 2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.
Storage Temperature: 4°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

8.2 Engineering controls

This product is not known to contain any substances with occupational exposure limit values.

8.3 Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection : Use gloves when handling product. Inspect gloves before use to ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and water.

Body protection : Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.

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) respiratorcartridges 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).

Other Protective Clothing or Equipment: : Wear appropriate protective clothing to prevent exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance : Clear, Light Yellow
- b) Physical states : Liquid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : Not available
- f) Boiling point range : 93-94°C
- g) pH : Not available
- h) Density : Not available
- i) Flash point : 69°C
- j) Evaporation rate : Not available
- k) Flammability : Not available

- l) Upper/lower flammability or explosive limits: : Not available
- m) Vapor pressure : Not available
- n) Vapor density : Not available
- o) Relative density : 1.101 g/cm³ at 25 °C
- p) Water solubility : Not available
- q) Partition coefficient:n-octanol/water : Not available
- r) Autoignition temperature : Not available
- s) Decomposition temperature : Not available
- t) Kinematic viscosity : Not available
- u) Explosive properties : Not available
- v) Oxidizing properties : Not available
- w) Solubility in other solvents : Not available
- x) Surface tension : Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special reactivity is known.

10.2 Chemical stability

Product is stable when stored and used as recommended.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents, Ammonia are incompatible with this product.

10.5 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

LD50 Oral : Rat - 850 mg/kg

11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

11.3 Respiratory or skin sensitization

No sensitization data available.

11.4 Germ cell mutagenicity

No mutagenicity data available.

11.5 Carcinogenicity

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 probable, possible or confirmed human carcinogen by ACGIH.

NTP : 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 NTP.

OSHA : 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 OSHA.

11.6 Reproductive toxicity

No reproductive toxicity data available.

11.7 Specific target organ toxicity – single exposure

No specific organ toxicity data available.

11.8 Specific target organ toxicity – repeated exposure

Inhalation - May cause respiratory irritation..

11.9 Aspiration hazard

No aspiration hazard data available.

11.10 Likely routes of exposure

Respiratory organs, mouth, skin, and eyes.

11.11 Symptoms of exposure

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No ecological toxicity data available.

12.2 Persistence and degradability

No persistence/degradability data available.

12.3 Bioaccumulative potential

No bioaccumulation data available.

12.4 Mobility in soil

No soil mobility data available.

12.5 Other adverse effect

No other adverse effect available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 DOT (US)

UN Number: 1993
Proper shipping name: Combustible liquid, n.o.s. (Diethyl pyrocarbonate)
Class:
Packing Group: III
Marine Pollutant: No

14.2 IMDG

Not a dangerous good under IMDG regulations.

14.3 IATA

Not a dangerous good under IATA regulations.

SECTION 15: REGULATORY INFORMATION

15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: Acute Health Hazard, Fire Hazard

15.2 Right to know components

Massachusetts : Diethylpyrocarbonate (DEPC) CAS No.: 1609-47-8.

Pennsylvania : Diethylpyrocarbonate (DEPC) CAS No.: 1609-47-8.

New Jersey : Diethylpyrocarbonate (DEPC) CAS No.: 1609-47-8.

California
proposition 65
components : This product contains no chemicals which are known to the State of California to cause cancer, or birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

16.1 Disclaimer

This product is offered by zellx-biochem.com for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall zellx-biochem.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if zellx-biochem.com has been advised of the possibility of such damages.

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16.2 Preparation Information

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