



SAFETY DATA SHEET

Generic SDS (EU) - No country specific data

Version 3.8. Revision Date 06.02.2015

Issued on 2023.03.04

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name:	diethyl (2-aminoethyl)phosphonate
Product Catalogue Number:	EN300-7464191
EC number:	N/A
REACH No.:	A registration number for this substance / mixture is not available. The substance is exempted from registration as the annual tonnage does not require a registration or registration is envisaged for a later registration deadline.

CAS-No.:	41468-36-4
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Alias product code(s): N/A

1.2 Recommended use of the substance and restrictions on use

Recommended use: Laboratory chemicals, research and development use only.

1.3 Supplier's details

Company:	ENAMINE Ltd.78 Chervonotkatska Street02094 KyivUkraine
Telephone:	+38 044 495 88 17
Fax:	+380 44 5373253
E-mail address:	SDS@enamine.net

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance / mixture

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, oral(Category 4), H302

Acute toxicity, dermal(Category 4), H312

Acute toxicity, inhalation(Category 4), H332

Specific target organ toxicity, single exposure; Respiratory tract irritation(Category 3), H335

Skin corrosion/irritation(Category 1B), H314

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram:  

Signal word: Danger

Hazard statement(s):

H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H335	May cause respiratory irritation
H314	Causes severe skin burns and eye damage

Precautionary statements:

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling. Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Special note: Excessive pressure may build up in a container. Open container with caution to prevent container damage and accidental release.

2.3 Other hazards

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms:	2-aminoethylphosphonic acid diethyl ester
Formula:	C ₆ H ₁₆ NO ₃ P
Molecular Weight:	181.1699

CAS-No.:	41468-36-4
EC number	N/A

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component: diethyl (2-aminoethyl)phosphonate

Classification:

Acute toxicity, oral (Category 4), H302
Acute toxicity, dermal (Category 4), H312
Acute toxicity, inhalation (Category 4), H332
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335
Skin corrosion/irritation (Category 1B), H314

Concentration, %: N/A

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

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.
Inhalation:	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.
Skin contact:	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
Eye contact:	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
Ingestion:	If swallowed, wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Sand, carbon dioxide, dry chemical powder, or appropriate foam.

5.2 Specific hazards arising from the substance or mixture

May emit toxic fumes under fire conditions including Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phosphorus oxides. Danger of containers bursting upon heating.

5.3 Special protective equipment and precautions for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: remove movable containers if safe to do so.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Wipe dry, place a rag in a bag and hold for waste disposal. Avoid fumes inhaling. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and upright. Avoid overheating. Store in a dry and well-ventilated place at RT.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
N/A

8.2 Appropriate engineering controls

Install a closed system or local exhaust so that workers should not be exposed directly.
Install safety shower and eye bath.
Wash hands thoroughly after handling.

8.3 Personal protective equipment

Respiratory Protection:	Government approved respirator.
Skin Protection:	Compatible chemical-resistant 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. Wash and dry hands.
Eye/Face Protection:	Government approved eye/face protection equipment.
Body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property Value At Temperature or Pressure

Appearance (20°C)

Physical state: liquid

Odour: N/A

Colour: N/A

pH: N/A

Melting point/freezing point (°C): N/A

Initial boiling point and boiling point range (°C): 97-100 at pressure 2 mm Hg

Flash Point (°C): N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density (g/ml): 1.052 at temperature 20°C

Partition coefficient: n-octanol/water: -0.437

Auto-ignition temperature (°C): N/A

Viscosity: N/A

Flammability: N/A

Explosive properties: N/A

Oxidizing properties: N/A

Water solubility: N/A

Evaporation rate: N/A

Refractive index: 1.427, 589 nm, 20 °C

10. STABILITY AND REACTIVITY

10.1 Chemical stability

Stable under specified storage temperature.

10.2 Possibility of hazardous reactions

No data available

10.3 Conditions to avoid

No data available

10.4 Incompatible materials

Strong oxidizing agents.

10.5 Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Phosphorus oxides

11. TOXICOLOGICAL INFORMATION

N/A

Toxicological properties were not fully evaluated.

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

Substance disposal:	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations
Contaminated packaging disposal:	Dispose of as unused product

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 2922

IMDG: 2922

IATA: 2922

14.2 UN proper shipping name

ADR/RID: CORROSIVE LIQUID, TOXIC, N.O.S. (diethyl (2-aminoethyl)phosphonate)

IMDG: CORROSIVE LIQUID, TOXIC, N.O.S. (diethyl (2-aminoethyl)phosphonate)

IATA: Corrosive liquid, toxic, n.o.s. (diethyl (2-aminoethyl)phosphonate)

14.3 Transport hazard class(es)

ADR/RID: 8 (6.1)

IMDG: 8 (6.1)

IATA: 8 (6.1)

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulations (EC) No. 1907/2006 and No. 1272/2008.

15.1 Safety, health and environmental regulations specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

For this product no chemical safety assessment was carried out at Enamine Ltd.

16. OTHER INFORMATION

Further information

For R&D use only. Not for drug, household or other uses.

This is an experimental product whose properties are not fully evaluated yet. The information contained herein is based on the present state of our knowledge and therefore does not guarantee certain properties. Recipients of the product must take responsibility for observing existing laws and regulations.

End of Safety Data Sheet