

Safety Data Sheet

According to Regulation (EC) No 1272/2008 (CLP) and GHS

SDS summary

Product name: ELISA substrate: pNPP for ALP

Product code: 3652-P10

Component	Substance/Mixture	CAS No.	EC No.	Conc.	Hazard pictogram code	Hazard statements
pNPP	Diethanolamine	111-42-2	203-868-0	10 %	GHS05 GHS08	H302 H315 H318 H373

If applicable, components listed in the summary above are further specified below into 16 sections according to the Regulation (EC) No 1272/2008 (CLP) and GHS.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: ELISA substrate: pNPP for ALP

Component: pNPP

Substance/Mixture: **Diethanolamine**

1.2 Relevant identified uses and uses advised against

Recommended use: Laboratory chemical for research use only

Uses advised against: No information available

1.3 Supplier

Mabtech AB Box 1233,

SE 131 28 Nacka Strand, Sweden

Tel: +46 8 716 27 00

Email: mabtech@mabtech.com

1.4 Emergency telephone number

Contact your local emergency number.

SECTION 2: Hazards identification

2.1 Classification of mixture

According to Regulation (EC) No 1272/2008 (CLP)

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard pictogram

Signal word

Danger





Precautionary statements:

P301 + P330 If swallowed: Rinse mouth P352 If on skin: Rinse with plenty of water

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

if present and easy to do so. Continue rinsing

2.3 Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.1 Description of the mixture

Aqueous solution of p-nitrophenyl phosphate (pNPP) containing 10% diethanolamine

3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to Regulation (EC) No 1272/2008 [CLP]
Diethanolamine	111-42-2	203-868-0	10 %	H302 Harmful if swallowed H315 Causes skin irritation H318 Causes serious eye damage H373 May cause damage to organs through prolonged or repeated exposure

SECTION 4: First aid measures

4.1 Description of first aid measures

a) Following inhalation:

Move into fresh air. Seek medical attention for any breathing difficulty.

b) Following skin contact:

Remove contaminated clothing. Wash with water and soap, rinse thoroughly. Seek medical attention if irritation persists.

c) Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

d) Following ingestion:

Do not induce vomiting. Rinse mouth with water. Consult medical personnel for actions to take.

4.2 Most important symptoms and effects

Causes skin irritation and serious eye damage.

4.3 <u>Indication of any immediate medical attention and special treatment needed</u> **No data available.**

SECTION 5: Firefighting measures

5.1 General information

Not flammable or combustible.

5.2 Extinguishing media

No known restrictions; use any means suitable for nearby fire.

5.3 Special hazards arising from the substance or mixture

Toxic gases and vapors may be released if involved in a fire.

SECTION 6: Accidental release measures

6.1 <u>Personal precautions, protective equipment and emergency procedures</u> **Use gloves, eye protection and good hygienic practices.**

6.2 Environmental precautions

Prevent further leakage. Do not let large volumes enter into drains.

6.3 Methods and material for containment and cleaning up

Collect large spills as chemical waste according to local regulations.

6.4 Reference to other sections

See section 8 for information on safe handling.

See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid skin contact, use gloves. Avoid contact with eyes. Use good hygienic practices. Wash hands after use.

7.2 Technical measures and storage conditions

Store in closed containers in the dark at 2-8 °C. Allow only portion to be used to equilibrate to room temperature.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls/personal protection

None in particular.

8.2 Personal protective equipment

a) Eye protection
b) Hand protection
c) Skin and body protection
Recommended
Recommended

d) Respiratory protection
e) Thermal hazards
No specific requirements
No specific requirements

SECTION 9: Physical and chemical properties

a) Physical state at room temperature

9.1 Information on basic physical and chemical properties

Clear to light yellow b) Appearance c) Odour Minimal odour d) pH **PH=9** e) Melting/freezing point Not determined f) Boiling point/range Not determined g) Flash point Not determined h) Evaporation rate Not determined i) Flammability (sold, gas) Not determined j) Flammability in air Not determined

Liquid

n) Water solubility

o) Solubility in other solvents

- p) Auto ignition temperature
- q) Decomposition temperature
- r) Viscosity, kinematic

s) Explosive properties

Soluble

Not determined

Not self-igniting

Not determined

Not determined

No information available

9.2 Information on basic physical and chemical properties

Mildly basic, aqueous solution.

SECTION 10: Stability and reactivity

10.1 Reactivity

No known hazardous reactions

10.2 Chemical stability

Stable under recommended use and storage conditions.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.3 Conditions to avoid

Elevated temperature and light exposure may cause yellow color formation.

10.4 Incompatible materials

Strong acids, strong oxidizing agents. Contact with metal or metal surfaces may cause color formation.

10.6 <u>Hazardous decomposition products</u>

High temperature or fire conditions may cause toxic vapor formation, including oxides of carbon, nitrogen, and formation of hydrogen chloride gas.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:

Diethanolamine has been reported to be slightly toxic in mice, rats and rabbits. Nausea and stomach pain may occur on ingestion.

b) Skin corrosion/irritation:

May cause irritation and redness.

c) Serious eye damage/irritation:

May cause irritation and redness.

d) Sensitization to the respiratory tract/skin:

May cause irritation and redness.

e) Germ cell mutagenicity

No data available.

f) Carcinogenicity

Diethanolamine has been reported to be carcinogenic in mice. The US National Toxicity program has proposed classifying diethanolamine as a substance that is "reasonably anticipated to be a human carcinogen".

g) Reproductive toxicity:

No data available.

h) Specific organ toxicity - single exposure

No data available.

i) Specific target organ toxicity- repeated exposure

No data available.

j) Inhalation

There may be irritation of the throat with a feeling of tightness in the chest.

11.2 Additional information

Not data available.

SECTION 12: Ecological information

12.1 Toxicity

a) Aquatic toxicity:

Not determined.

b) Sediment toxicity:

Not determined.

c) Terrestrial toxicity:

Not determined.

12.2 Persistence and degradability

Not determined.

12.3 Bioaccumulative potential

Not determined.

12.4 Mobility in soil

Not determined.

12.5 Results of PBT and vPvB assessment

Not determined.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

a) Waste from residues or unused products:

Dispose the non-hazardous waste according to local regulations.

b) Packaging:

Empty container is not considered as hazardous waste.

SECTION 14: Transport information

Land transport Sea Air (ADR/RID) (IMDG/ADN) (IATA) 14.1 UN number Not applicable Not applicable Not applicable 14.2 Proper shipping name Not applicable Not applicable Not applicable 14.3 Transport hazard class (es) Not applicable Not applicable Not applicable

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14.4 Packaging group Not applicable Not applicable Not applicable

14.5 Environmental hazardsNot applicable14.6 Special precausions for userNot applicable

14.7 Maritime transport in bulk according to IMO Not applicable

instruments

SECTION 15: Regulatory information

15.1 <u>Safety, health and environmental regulations/legislation specific for the substance or mixture</u> Hazards: The product mixture contains 10% diethanolamine, which is toxic by inhalation, toxic by ingestion, and toxic by skin absorption.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or mixture by the supplier

SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The product is supplied for research use only. Mabtech shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damage therefrom.

END of SDS