

**Safety Data Sheet according to (EC) No. 1907/2006**

Day of issue: 9. September 2005

Day of revision: 12 November 2008

**1. Identification of the substance/preparation and of the company/undertaking**

Trade names

**p-NPP substrate cat. no. 4400****Use**

For research and analysis.

**Manufacturer/Supplier**

See below.

**Telephone/Telefax**

See below.

**Emergency telephone**

+45 39 27 17 71

**Responsible person for the safety data sheet (e-mail):**

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**2. Hazards identification****Particular information pertaining specific risk for human and environment**

ALTtox a/s has evaluated, that the preparation is not to be classified according to EC directive 1999/45/EC.

**Classification:** -**3. Composition/Information on ingredients**

% w/w	Chemical name	CAS no.	EINECS/ELINCS	Classification
App. 6	Trizma base*	77-86-1	201-064-4	Xi;36/38

\* Trizma base = Tris(hydroxymethyl)aminomethane

Wording of R-phrases - see section 16.

**4. First-aid measures****Eye contact**

Flush thoroughly with water or physiological salt water, holding eye lids open.

Remember to remove contact lenses, if any. If irritation persist: seek medical advice.

**Skin contact**

Remove contaminated clothing and wash with water and soap.

**Inhalation**

Go to fresh air. Keep at rest. If person feels queasy/discomfort: seek medical advise.

**Ingestion**

Rinse mouth and drink plenty water. If person feels queasy/discomfort: seek medical advise.

**Information**

Show this Safety Data Sheet to a physician or emergency ward.

**5. Fire-fighting measures****Flammability**

Not combustible; aqueous solution.

**Extinguishing media - suitable**

Not relevant.

**Extinguishing media - NOT suitable**

Not relevant.

**Special risks in a fire situation**

Not relevant.

**Protective equipment**

Not relevant.

**Additional information**

Not relevant.

Trade name: **p-NPP substrate****6. Accidental release measures****Personal precautions**

Provide for sufficient ventilation/respiratory protection.

See protective equipment listed in section 8.

**Environmental precautions**

Do not empty into drains. See section 12. If the product contaminates sewages, inform appropriate authorities in accordance with local regulations.

**Methods for cleaning up/collecting**

Absorb spilled liquid with a cloth, inert material or liquid-absorbent material. Read the directions from the producer. Flush the area with water. For further treatment of the spillage – see section 13.

**7. Handling and storage****Safe handling**

See section 8.

**Safe storage**

At 2 °C – 8 °C in a sealed container.

**Specific use(s):**

See section 1.

**8. Exposure controls and personal protection****Engineering measures (prevention of worker exposure)**

After use wash with water and soap.

**Exposure limits: -****Personal protective equipment****Eye protection:**

Wear close-fitting safety goggles when risk of splashes during manufacture of solution.

**Skin protection:**

Use protective gloves of nitrile rubber when there is a risk of direct contact and splash.

Breakthrough time: Unknown - change gloves if exposed.

**Respiratory protection:** None.**Environmental exposure controls: -****9. Physical and chemical properties**

**Appearance:** Liquid

**Solubility in water:** Soluble

**10. Stability and reactivity****Stability**

Stable. Non-combustible.

**Conditions to avoid**

-

**Materials to avoid**

-

**Hazardous decomposition products**

-

Trade name: **p-NPP substrate**

## 11. Toxicological information

- Routes of exposure:** May be absorbed through the skin, by inhalation and ingestion.
- Acute toxicity:**
- Eyes:** Contact with the eyes may cause irritation with redness.
- Skin:** Contact with the skin may cause irritation with redness.
- Inhalation:** Inhalation of atomized liquid may cause irritation of the upper respiratory tract.
- Ingestion:** Ingestion of large amounts can cause irritation with nausea and stomach ache.
- Long term toxicity:** -

## 12. Ecological information

- Ecotoxicity:**  
-
- Mobility:**  
Tris(hydroxymethyl)aminomethane (Trizma base) is water soluble and is therefore spread quickly in the aquatic environment.
- Persistence and degradability:**  
According to computer calculation Trizma base is expected to be easily biodegradable.
- Bioaccumulative potential:**  
Trizma base:  $\text{LogK}_{\text{ow}} < 1$  – no significant bioaccumulative effect (computer calculation).
- Other adverse effects:**  
-

## 13. Disposal considerations

- Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.
- EWC-code:** 16 05 09

## 14. Transport information

- Road/Rail (ADR/RID)**
- Class : -
- UN No. : -
- Proper Shipping Name: -

Trade name: **p-NPP substrate****15. Regulatory information****Classification according to EEC directives**

ALTox a/s has the 12 November 2008 evaluated, that the preparation is not to be classified according to EC directive 1999/45/EC.

**Danger symbol and danger designation:** None

**Risk-phrases:** -

**Safety-phrases:** -

**EINECS no.:** -

**Restriction on application**

-

**16. Other information****R-phrases mentioned in section 3:**

R 36/38: Irritating to eyes and skin.

**Requirements concerning special training**

No special training is anticipated, however, the user should be well instructed for the execution of his task, have knowledge of this Safety Data Sheet and normal training in the use of personal protective equipment.

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**Changes in section(s):**

1, 2, 3, 4, 11, 13, 15 and 16

**This Safety Data Sheet was created by:**

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