

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

Day of issue: 9 November 1995

Day of revision: 12 November 2008

**1. Identification of the substance/preparation and of the company/undertaking****Trade names****TMB ONE SUBSTRATE, cat. no. 4380****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**

ALTox 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  |
|--------|---------------|------------|---------------|-----------------|
| < 0.02 | TMB*          | 54827-17-7 | 259-364-6     | Xn;R22 N;R51/53 |
| > 95   | Water         | 7732-18-5  | 231-791-2     | -               |

\* 3,3',5,5'-Tetramethylbenzidine. The concentration is so low, that it does not affect the classification of the product.

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. Keep under surveillance. 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: **TMB One Substrate**

## 6. Accidental release measures

### Personal precautions

Provide for sufficient ventilation/respiratory protection.

See protective equipment listed in section 8.

### Environmental precautions

Avoid empty into drains. If large amounts of the product contaminates sewages, inform appropriate authorities in accordance with local regulations.

### Methods for cleaning up/collecting

Absorb spilled liquid and place spillage in a plastic container. Further handling of spillage - see section 13.

## 7. Handling and storage

### Safe handling

See section 8.

### Safe storage

At 4°C. Keep container closed when not in use. Protected against light.

### Specific use(s):

See section 1.

## 8. Exposure controls and personal protection

### Engineering measures (prevention of worker exposure)

Avoid contact with skin and eyes.

### Exposure limits: -

### Personal protective equipment

**Eye protection:** Wear safety goggles when risk of splashes.

**Skin protection:** Use gloves of plastic or rubber when risk of contact.

Breakthrough time: approximately 3 hours.

**Respiratory protection:** None.

**Environmental exposure controls: -**

## 9. Physical and chemical properties

**Appearance:** Liquid

**Odour:** -

**pH:** -

**Boiling point (°C):** about 100

**Flash point (°C):** -

**Density (g/ml):** about 1

**Solubility in water:** Miscible

## 10. Stability and reactivity

### Stability

Stable.

### Conditions to avoid

Avoid excessive heating.

### Materials to avoid

-

### Hazardous decomposition products

-

Trade name: **TMB One Substrate**

## 11. Toxicological information

|                            |   |
|----------------------------|---|
| <b>Routes of exposure:</b> | May be absorbed through ingestion.  |
| <b>Acute toxicity:</b>     |   |
| <b>Eyes:</b>               | May cause irritation.   |
| <b>Skin:</b>               | May cause irritation.   |
| <b>Inhalation:</b>         | Inhalation is not possible when used as recommended.                      |
| <b>Ingestion:</b>          | May cause irritation of the gastrointestinal tract.                       |
| <b>Long term toxicity:</b> | TMB has shown a possible mutagenic effect in experimental animals (mice). |

## 12. Ecological information

|                                       |   |
|---------------------------------------|---|
| <b>Ecotoxicity:</b>                   | TMB is toxic to aquatic organisms. Effect values (EC <sub>50</sub> ): 1 - 10 mg/l.                |
| <b>Mobility:</b>                      | Miscible with water.  |
| <b>Persistence and degradability:</b> | TMB is not readily biodegradable. May cause long-term adverse effects in the aquatic environment. |
| <b>Bioaccumulative potential:</b>     | Log K <sub>OW</sub> of TMB is 4.11 (is expected to accumulate).                                   |
| <b>Other adverse effects:</b>         | -   |

## 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 08

## 14. Transport information

|                            |     |
|----------------------------|-----|
| <b>Road/Rail (ADR/RID)</b> |     |
| Class                      | : - |
| UN No.                     | : - |
| Proper Shipping Name:      | -   |

Trade name: **TMB One 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.

This Safety Data Sheet is intended as a service to customers/users of this product.

**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 22: Harmful if swallowed.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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.

**Edition no.:** 10

**(Revision) Date:** 12 November 2008

**Changes in section(s):**

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

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

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# Material Safety Data Sheet