

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

Day of issue: 16 February 2000

Day of revision: 12 November 2008

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

Trade names

TMB BLOTTING PLUS, cat. no. 4460

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):

Rasmus Broen Pedersen, ALTox a/s (rbp@altox.dk)

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
< 0.05	TMB*	54827-17-7	259-364-6	Xn;R22 N;R51/53
< 5	Citric acid monohydrate	5949-29-1	201-069-1	Xi;R36
> 94	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.

Trade name: **TMB Blotting Plus**

Material Safety Data Sheet

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.

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

Trade name: **TMB Blotting Plus****10. Stability and reactivity****Stability**

Stable.

Conditions to avoid

Avoid excessive heating.

Materials to avoid

-

Hazardous decomposition products

-

11. Toxicological information**Routes of exposure:** May be absorbed through ingestion.**Acute toxicity:****Eyes:** May cause irritation.**Skin:** May cause irritation.**Inhalation:** Inhalation is not possible when used as recommended.**Ingestion:** May cause irritation of the gastrointestinal tract.**Long term toxicity:** TMB has shown a possible mutagenic effect in experimental animals (mice).**12. Ecological information****Ecotoxicity:**TMB is toxic to aquatic organisms. Effect values (EC₅₀): 1 - 10 mg/l.**Mobility:**

Miscible with water.

Persistence and degradability:

TMB is not readily biodegradable. May cause long-term adverse effects in the aquatic environment.

Bioaccumulative potential:Log K_{OW} of TMB is 4.11 (is expected to accumulate).**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 08**14. Transport information****Road/Rail (ADR/RID)**

Class : -

UN No. : -

Proper Shipping Name: -

Trade name: **TMB Blotting Plus****15. Regulatory information****Classification according to EEC directives**

ALTtox 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 36: Irritating to eyes.

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.

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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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Material Safety Data Sheet