

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 16.09.2003

Version: 1.0

Product: **Trilon* BX Powder**

(30043448/SDS_GEN_GB/EN)

Date of print 26.11.2003

1. Substance/preparation and company identification

Trilon* BX Powder

Use: complexing agents for the chemical industry

Company:

BASF Aktiengesellschaft - D-67056 Ludwigshafen

Germany

Contact address:

BASF PLC

PO Box 4, Earl Road,

Cheadle Hulme, Cheshire,

SK8 6QG

Telephone: 0161 485 6222

Emergency information:

Tel: +44-(0)161-485 6222 (24 hour)

2. Composition/information on ingredients

Chemical nature

tetrasodium ethylenediaminetetraacetate

CAS Number: 64-02-8

EG-Number: 200-573-9

3. Hazard identification

Harmful if swallowed.

Irritating to eyes.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

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On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:

water, dry extinguishing media, foam, carbon dioxide

Specific hazards:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

Contain contaminated water/ firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and storage

Handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Take precautionary measures against static discharges. The product is not capable of a dust explosion.

Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter EN 143 Type P2, medium efficiency, (solid and liquid particles of harmful substances).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Eye protection:

Safety glasses with side-shields (frame goggles) (EN 166)

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and chemical properties

Form: powder
Colour: white
Odour: product specific

pH value: approx. 10.7 - 11.7 (DIN 19268)
(10 g/l, 23 °C)

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melting point (decomposition): approx. 400 °C

Bulk density: approx. 600 - 700 kg/m³
(20 °C)Solubility in water: approx. 580 g/l
(20 °C)Solubility (qualitative) solvent(s): polar solvents
soluble

Partitioning coefficient n-octanol/water (log Pow): -2.6

10. Stability and reactivity

Conditions to avoid:

Avoid dust formation. Avoid humidity.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

LD₅₀/oral/rat: 1,000 - 2,000 mg/kg

Primary skin irritation/rabbit: non-irritant

Primary irritations of the mucous membrane/rabbit: Irritant.

Sensitization/guinea pig: Non-sensitizing.

12. Ecological information

Ecotoxicity

Toxicity to fish:

Leuciscus idus/LC₅₀ (96 h): > 500 mg/l

Aquatic invertebrates:

EC₅₀ (48 h): > 100 mg/l

Microorganisms/Effect on activated sludge:

DEV-L2

50 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

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Persistence and degradability

Assessment: Experience has shown that the product is difficult to eliminate in effluent treatment plants. Was found to be potentially biodegradable.

Chemical oxygen demand (COD): 575 mg/g

Bioaccumulation potential

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

Contaminated packaging:

Uncontaminated packs can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Not classified as hazardous under transport regulations (ADR RID ADN IMDG/GGVSee ICAO/IATA)

15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EG-Number: 200-573-9

Hazard symbol(s)

Xn Harmful.

R-phrases(s)

R22 Harmful if swallowed.

R36 Irritating to eyes.

Hazard determinant component(s) for labelling: ETHYLENEDIAMINETETRAACETIC ACID NA4-SALT

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Other regulations

This product is classified under the UK Chemicals (Hazard Information and Packaging) Regulations, (CHIP) (United Kingdom).

The data should be considered when making any assessment under the UK Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

16. Other information

Vertical lines in the left hand margin indicate an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.