



Safety Data Sheet According to EC Directive 91/155/EEC

No. : 407010

Version : 2.01

Status 24/08/2006

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1. Identification of the substance/Preparation and Company

Product details : **Hardness Indicators Type:**
TH 2005T/2025T/2100T
TH 5T/10T/20T/30T/50T/100T/200T/300T

Supplier details : **EWS International**
Paardskerkhofweg 14
NL-5223 AJ ,s-Hertogenbosch, The Netherlands
Tel.: 00 31 (0) 73 624 02 52

2. Composition of product

Hazardous components :

Triethanolamine
CAS-No.: 102-71-6 EC-Index:
EC-No.: 203-049-8 none
Concentration: 25 to 40%

Eriochrome blue-black B
CAS-No.: 3564-14-5 EC-Index:
EC-No.: 222-639-6 none
Concentration: 0,1 to 0,5 %

Ethylenedinitrilotetraacetic acid EC-Index:
CAS-No.: 60-00-4 none
EC-No.: 200-449-4
Concentration: 1 to 10 %

Polyethyleneglycole
CAS-No.: 25322-68-3 EC-Index:
EC-No.: 500-038-2 none
Concentration: 30 to 60 %

Water
CAS-No.: 7732-18-5 EC-Index:
EC-No.: 231-791-2 none
Concentration: 10 to 15 %



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3. Possible dangers

Irritates skin and eyes

4. First aid

- After contact with eyes** : Rinse thoroughly with plenty of water and seek medical advice.
- After contact with skin** : Rinse with plenty of water and soap.
- After ingestion** : When swallowed, allow water to be drunk. Don't induce vomiting. Summon a doctor immediately.

5. Fire fighting measurements

Suitable extinguishing media : water mist
foam
carbon dioxide
dry powder

Special hazards from the substance itself, its combustion products or of its vapours : In case of fire danger of development of oxides of nitrogen, carbon dioxide.

Special protective equipment for fire fighting : Use self contained breathing apparatus. Prevent fire-fighting water from entering surface water or ground water.



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6. Accidental release measures

Personal protective equipment

: Do not inhale vapours/aerosols.

Environmental precautions

: Don't allow to enter sewerage system.

Methods for cleaning up/taking up

: Take up with absorbent material (e.g. sand etc.)
Pick for disposal in tightly closed containers.

7. Storage and handling

Storage

: Only in pristine bottles.
Storage temperature: 15 – 25 °C

Hints for handling

: No further requirements.

8. Exposure controls / personal protection

Personal protection

: Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substance handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.

Further measures

: Keep away from feedstuffs and beverage.
Wash hands after work.

Breathing

: Do not breath vapours.

Hand protection

: In full contact:
Glove material: nitrile rubber
Layer thickness: 0.11mm
Breakthrough time:: > 480 min

Eye protection

: Use protective glasses

Industrial hygiene:

: Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working



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with substance.

9. Physical and chemical properties

Form:	: Liquid
Colour	: Green
pH value at 15 g/L	: pH 10
Density	: 1.1 g/cm ³
Solubility in water (20°C)	freely soluble

10. Stability and reactivity

Conditions to be avoided	: Strong heating.
Substances to be avoided	: Exothermic reaction with: acids, anhydrides, halogenating agents, nitriles, oxidizing agent.
Hazardous decomposition products	: Nitrogen oxides, Carbon dioxide



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11. Toxicological information's

Acute toxicity (LD₅₀) : > 2000 mg/kg (External MSDS).

Species : dermal rabbit

Source: RTECS

Acute oral toxicity (LD₅₀) : > 5000 mg/kg (External MSDS)

Species : oral, rat

Source: RTECS

Irritant effect on skin

slightly irritant

Duration of exposure : 24h

Species : rabbit

Source: RTECS

Irritant effect on eyes

slightly irritant

Duration of exposure : 24h

Species : rabbit eye

Source: RTECS

Sensitization : ---

non-sensitizing

Species: Guinea pig

Remarks

Experience in use : irritates eyes, skin and respiratory tract



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12. Ecological information's

Data on elimination
(persistence and degradability)

: Biologic degradation:
Biodegradation: 96 % (OECD 301 E)
Readily biodegradable.
Biodegradation: 82 % /8d (OECD 302 B)
Easily eliminable.

Behaviour in environmental compartments:
Distribution: log Pow: -2.3 (25 °C) (OECD 107).
No bioaccumulation is to be expected (log Pow <1).

Ecotoxic effects:
Biologic effects:
Harmful effect due to pH shift. Hazard for drinking water supplies.
Fish toxicity: L macrochirus LC50: 450-1000 mg/l/96 h (IUCLID).
Daphnia toxicity: Daphnia magna EC50: 1390 mg/l /24 h (IUCLID)
Algeal toxicity: Desmodesmus subspicatus IC50: 216 mg/l /72 h (IUCLID).
Bacterial toxicity : Photobacterium phoshoreum EC50: 525 mg/l / 30 min (IUCLID).
Maximum permissible toxic concentration:
Bacterial toxicity: Ps.putida EC5: > 10000 mg/l / 16 h (IUCLID).

Further ecologic data:
TOD: 2.04 g/g (IUCLID).

13. Disposal considerations

Product

: In accordance with regulations for special waste, must be taken, after pre-treatment, to an authorised special waste incineration plant.



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14. Transport information

: No subject to transport regulations.

15. Regulatory information

Labelling in accordance with : EC Directives

Symbols : ---

R-phrases : ---

S-phrases : ---

16. Other information

Text of any R phrases referred to under heading 2:

36 Irritating to eyes.

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

This information is based on our present state of knowledge. Therefore it describes the properties of the product, but not its suitability for a particular application.

Printing date : 07.01.2014