

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 07.09.2010

Version: 3.1

Product: **Neutrol® TE**

(30035126/SDS_COS_EU/EN)

Date of print 08.09.2010

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

Neutrol® TE

Chemical name: 1,1',1'',1'''-Ethylenedinitrilotetrapropan-2-ol

Use: cosmetic ingredient

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Care Chemicals

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International emergency number:

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2. Hazards Identification

According to REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Label elements and precautionary statement:

Pictogram:



Signal Word:

Warning

Hazard Statement:

Causes serious eye irritation.

Precautionary Statements (Prevention):

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Wear protective gloves/protective clothing/eye protection/face protection. Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Classification of the substance and mixture:

Serious eye damage/eye irritation: Cat. 2

Possible Hazards (according to Directive 67/548/EWG or 1999/45/EC)

No particular hazards known.

3. Composition/Information on Ingredients

Chemical nature

INCI Name: Tetrahydroxypropyl Ethylenediamine

1,1',1'',1'''-ethylenedinitrotetrapropan-2-ol

CAS Number: 102-60-3

EC-Number: 203-041-4

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, foam

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Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

Personal precautions:
No special precautions necessary.

Environmental precautions:
Do not empty into drains.

Methods for cleaning up or taking up:
For large amounts: Dike spillage. Pump off product.
For residues: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

Ensure thorough ventilation of stores and work areas.

Storage

Suitable materials for containers: Low density polyethylene (LDPE), zinc coated, Stainless steel 1.4301 (V2), Stainless steel 1.4401, glass, High density polyethylene (HDPE), tin (tinplate)
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.
Protect against heat. Protect contents from the effects of light.

8. Exposure Controls/Personal Protection

Components with workplace control parameters

none

Personal protective equipment

Respiratory protection:
Respiratory protection in case of vapour/aerosol release. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Suitable materials 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 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 through testing.

Eye protection:

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

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	almost odourless	
pH value:	11 (50 g/l, 23 °C)	
Freezing point:	16 °C	(DIN ISO 2207)
Boiling point:	240 °C (13 mbar)	
Flash point:	212 °C	(DIN ISO 2592)
Ignition temperature:	> 200 °C	
Self ignition:	not self-igniting	Test type: Spontaneous self-ignition at room-temperature. (Method: other)
Explosion hazard:	Based on the chemical structure there is no indicating of explosive properties.	(other)
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	(other)
Vapour pressure:	< 1 mbar (20 °C)	
Density:	1.03 g/cm ³ (20 °C)	
Relative density:	1.034 (20 °C)	(Directive 92/69/EEC, A.3)
Solubility in water:	miscible	

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Solubility (qualitative) solvent(s): organic solvents
miscible

Partitioning coefficient n-octanol/water (log Pow): -2.08 (calculated)

Surface tension: 63.94 mN/m (Directive 79/831/EEC, A.5)

(20 °C; 0.1 % (V))

Based on chemical structure, surface activity is not to be expected.

Grain size distribution: Test substance The substance / product is marketed or used in a non solid or granular form.

Molar mass: 292.42 g/mol

10. Stability and Reactivity

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:

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

11. Toxicological Information

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 2,890 mg/kg (OECD Guideline 401)

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 2,200 - 4,600 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)

The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:

EC20 (30 min) 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The details of the toxic effect relate to the nominal concentration.

Persistence and degradability

Elimination information:

40 - 50 % DOC reduction (42 d) (OECD 301 A (new version)) (aerobic, activated sludge)

Bioaccumulation potential

Bioaccumulation potential:

Accumulation in organisms is not to be expected.

13. Disposal Considerations

Observe national and local legal requirements.

Contaminated packaging:

Uncontaminated packaging can be recycled.

Uncleaned empties should be disposed of in the same manner as the contents.

14. Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

RID

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Inland waterway transport

ADNR

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

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

EC-Number: 203-041-4

EEC Directives:

The product does not require a hazard warning label in accordance with EC Directives.

Other regulations

16. Other Information

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

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.