

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 24.04.2013

Revision: 24.04.2013

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

Product identifier

Trade name: *Tris-EDTA Buffer*

Article number: 21-103, 21-500

Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation: *Laboratory chemicals*

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Biothema AB

Handens stationsväg 17

136 40 Handen

Sweden

+46 (0)8 7770020

Email address: info@biothema.com

MSDS author: BioThema AB

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: *This product is not classified as dangerous according to the CLP regulation*

Classification according to directive 67/548/EEC or Directive 1999/45/EC: *Not applicable*

Information concerning particular hazards for humans and the environment:

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The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and expanded upon by technical literature/supplier company information.

The classification is in line with current EC lists. It is extended, by information from technical literature and company information.

Label elements

Labeling according to EU guidelines:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non hazardous additions

Components: Void

Additional information: For the wording of the listed risk phrases refer to section 16

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4. First aid measures

Description of first aid measures

General information: *No special measures required*

After inhalation: *Supply fresh air; consult doctor in case of complaints.*

After skin contact: *Generally the product does not irritate the skin.*

After eye contact: *Rinse opened eye for several minutes under running water.*

After swallowing: *Drink a couple of glasses of milk or water. If symptoms persist consult doctor.*

Information for doctor:

Most important symptoms and effects, both acute and delayed: *None*

Indication of any immediate medical attention and special treatment needed: *No further relevant information available.*

5. Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: *None known*

Advice for firefighters: *No special advice.*

Protective equipment: *No special measures required.*

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: *Not required*

Environmental precautions: *Dilute with plenty of water*

Methods and material for containment and cleaning up: *Absorb with liquid-binding material (sand, universal binders, sawdust)*

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Reference to other sections

No dangerous substances are released

See Section 7 for information on safe handling

See section 13 for disposal information.

7. Handling and storage

Handling

Precautions for safe handling: *No special measures required*

Information about fire - and explosion protection: *The product is not flammable*

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: *Store at 4°C*

Information about storage in one common storage facility: *Not required.*

Further information about storage conditions: *None.*

Specific end use(s): *No further relevant information available.*

8. Exposure controls/personal protection

Additional information about design of technical facilities: *No further data; see item 7.*

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: *The lists valid during the production were used as basis.*

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Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Protection of hands:

Protective gloves.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles required during refilling

9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid

Colour: Colourless

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Odour: None

Odour threshold: Not determined.

pH-value: 7.75

Change in condition

Melting point/Melting range: 0°C

Boiling point/Boiling range: Not determined

Flash point: Not applicable

Flammability (solid, gaseous): Not applicable

Ignition temperature

Decomposition temperature: Not determined.

Self-igniting: The product is not self igniting

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure: Not applicable.

Density: Not determined

Relative density: Not determined.

Vapour density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

Water: Fully miscible

Partition coefficient (n-octanol/water): Not determined

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Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

Solvent content:

Organic solvents: 0%

Other information: No further relevant information available

10. Stability and reactivity

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known

11. Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification: No data available

Primary irritant effect:

on the skin: No irritant effect.

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on the eye: *Irritating effect.*

Sensitization: *No sensitizing effects known.*

Additional toxicological information: *The product is not subject to classification according to the calculation method of the 'General EU Classification Guidelines for preparations' as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects in our experience and the information provided to us.*

12. Ecological information

Toxicity

Aquatic toxicity: *Not harmful to the aquatic environment*

Persistence and degradability: *Not available*

Behaviour in environmental systems:

Bioaccumulative potential: *Not known*

Mobility in soil: *No further relevant information available*

Ecotoxicological effects:

Remark: *Not available*

Additional ecological information:

General notes: *Generally not hazardous for water*

Results of PBT and vPvB assessment

PBT: *Not applicable.*

vPvB: *Not applicable.*

Other adverse effects: *No further relevant information available*

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13. Disposal considerations

Waste treatment methods

Recommendation:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

UN-Number	None
ADR, ADN, IMDG, IATA	Void
UN proper shipping name	None
ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	None
ADR, IMDG, IATA	
Class	Void
ADN	
ADN/R Class:	Void
	Not regulated
Packing group	None
ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation"	-

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class: Generally not hazardous for water.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

BioThema AB

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136 40 Handen

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Email address: info@biothema.com

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Abbreviations and acronyms:

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)*

ICAO: International Civil Aviation Organization

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning
the International Carriage of Dangerous Goods by Road)*

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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