

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



GENAXXON

b i o s c i e n c e

Product number : M6210

Product name :

Tris Buffer Grade

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

Product details

Product Name: Tris Buffer Grade

Catalogue-No.: M6210

Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Further information available from:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Information in case of emergency:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

MSDS-No: tris/1e

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Hazardous identification

Classification of the substance/preparation/mixture

According to Regulation (EC) No1272/2008



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to European Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/38: Irritating to eyes and skin.

Label elements

Labelling according to Regulation (EC) No. 1272/2008

The substance is classified and labeled according to the CLP regulation.s

Hazard pictograms



GHS07

Signal word: Warning

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



GENAXXON

b i o s c i e n c e

Product number : M6210

Product name :

Tris Buffer Grade

Hazard-determining components of labeling: Void

Hazard statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary statement(s):

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3. Composition/Information on ingredients

Chemical Characterisation

Description: Powder

Synonyms: Tris(hydroxymethyl)-aminomethane; Trometamol

Formula: C₄H₁₁NO₃

Molecular Weight: 121.14 g/mol

Product name	CAS-No.	EC-No.	Index-No.	Classification	Concentration
Sodium diatrizoate dihydrate	77-86-1	201-064-4	---	Skin Sens. 2; H315, Eye Sens. H319	---

4. First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation: Supply fresh air or oxygen; call a doctor/physician.

After skin contact: Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. Seek medical advice.

After eye contact: Rinse opened eye for several minutes under running water. Call a doctor/physician.

After swallowing: Do not induce vomiting; call for medical help immediately.

5. Fire-fighting Measures

Extinguishing media

Suitable extinguishing agents: use water spray, CO₂, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture:

Combustible.

In case of fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x).

Advice for fire-fighters

Protective equipment: Wear self-contained breathing apparatus for fire-fighting if necessary.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6. Accidental release Measures

Personal precaution, protective equipment and emergency procedures

Avoid dust formation. Do not inhale dust. Avoid substance contact. Ensure adequate ventilation.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Product number : M6210

Product name :

Tris Buffer Grade

Environmental precautions

Do not allow product to enter drains/sewers/surface or ground water.

Methods and materials for containment and cleaning up:

Pick up mechanically. Avoid generation of dusts. Clean up affected area. Dispose of the material collected according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

Handling:

Precautions for safe handling: Any avoidable deposit of dust must be regularly removed.

Information about fire – and explosion protection: Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

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

Further information about storage conditions: Keep tightly closed.

Recommended storage temperature: 15°C to 25°C.

Storage class: 10-13

Special requirements: None

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: Not required.

Additional information: The list valid during the making were used as basis.

Personal protective equipment

Exposure controls

Personal protective equipment:

Respiratory protection:

For nuisance exposure use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEDk-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with eyes and skin.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



GENAXXON

b i o s c i e n c e

Product number : M6210

Product name :

Tris Buffer Grade

9. Physical and chemical properties

Appearance

Form: Powder - Solid
Colour: White
Odeur: None

Safety data

Change in conditions

Melting Point: 169°C – 172°C
Boiling Point: no data available
Sublimation: no data available

Flash Point: Not applicable
Flammability (solid, gaseous): Product is not flammable

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

Density at 20°C: 1.353 g/cm³

Bulk density at 20°C: ca. 840 kg/m³

Solubility in / Miscibility with water at 20°C
Organic solvents: 800 g/L
0.0%

10. Stability and Reactivity

Reactivity

Chemical stability: Stable under recommended conditions.

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

Possibility of hazardous reactions: No dangerous reactions known.

Incompatible materials: Strong bases, Strong oxidizing agents, Nitric acid.

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x).

11. Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

77-86-1 trometamol

Oral LD50 5900 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritant effect.

After inhalation: Irritant to skin and mucous membranes.

Sensitization: No sensitizing effects known.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information: None.

The product should be treated with usual precautions while handling chemicals.

12. Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Additional ecological information:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



Product number : M6210

Product name :

Tris Buffer Grade

General notes:

Water hazard class 3 (German Regulation) (Self assessment): extremely hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

13. Disposal considerations

Waste treatment methods:

Recommendation: Offer surplus and non-recyclable solutions to a licensed disposal company. Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Uncleaned/contaminated packaging: Dispose of as unused product.

Recommendation: Disposal must be made according to official regulations. Packaging that may not be cleansed are to be disposed of in the same manner as the product.

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class: -

Maritime transport IMDG:

IMDG Class: -

Marine pollutant: No

UN "Model Regulation": -

Special precautions for user: Not applicable

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Transport/Additional information: Not dangerous according to the above specifications.

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Not hazardous according to Directive 67/548/EEC

National Regulations: Germany

Water hazard class: Water hazard class 3 (Self-assessment).

16. Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

Abbreviation and Akronymes:

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

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

IMDG: International Maritime code for Dangerous Goods

Zuständig : GF

Druckdatum : 2011-07-27– überarbeitet : 2011-07-27

Safety Data Sheet

according to Regulation (EC) No. 1907/2006



GENAXXON

b i o s c i e n c e

Product number : M6210

Product name :

Tris Buffer Grade

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ACAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)