

Material Safety Datasheet (MSDS)

1. Product and company identification

Product identifier
Product uses
Supplier

Buffer TTGB 10X (reference: TP10004)
Only for in vitro use in research and analysis laboratories.

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Emergency telephone number

2. Hazards identification


Classification of the product.....

Skin irritation (Category 2), Eye irritation (Category 2), Specific target organ toxicity - single exposure (Category 3)

Label elements of EC regulation N° 1272/2008.....

H315: causes skin irritation, H319: causes serious eye irritation, H335: may cause respiratory irritation. P261: avoid breathing dust/fume/gas/mist/vapors/spray. P305/351/338: if in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Label elements of directive N° 67/548/EEC.....


Pictogram: Warning
R36/37/38: irritating to eyes, respiratory system and skin. S26: in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36: wear suitable protective clothing.

Other hazards


Hazard symbol(s)
None, safety data sheet available upon request.

3. Composition / information on ingredients

Components	Concentration	CAS n°	EC n°	Classification
Tris base	< 15 %	77-86-1	201-064-4	if ≥1 %: skin irritation (Category 2), eye irritation (Category 2), specific target organ toxicity - single exposure (Category 3)
Triton X100	< 2 %	9002-93-1		if ≥1%, acute toxicity (Category 4), eye irritation (Category 2), aquatic chronic hazard (Category 2)

4. First aid measures

Description of first aid measures.....

Consult a physician. Show this safety data sheet to the doctor in attendance. If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact, wash off with soap and plenty of water. In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed...

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

Immediate medical attention and special treatment

No data available.

5. Firefighting measures

Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture.....

Carbon oxides, nitrogen oxides (NOx).

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Cleaning methods	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections	For disposal see section 13.

7. Handling and storage

Safe handling.....	Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
Safe storage / product incompatibilities.....	Store at 2-8°C. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Specific end uses	Only for in vitro use in research and analysis laboratories.

8. Exposure controls/personal protection

Control parameters	Occupational exposure limit values: not determined.
Exposure controls.....	Handle according to instructions, good laboratory practices and normal hygiene standards (washing hands after manipulation).
Personal protective equipment.....	Wear protective clothing, gloves and goggles.

9. Physical and chemical properties

Appearance.....	Yellow transparent liquid
Odor.....	No data available
Odor Threshold.....	No data available
pH.....	7.6 ± 0.2
Melting point / freezing point.....	No data available
Flash point.....	No data available
Evaporation rate.....	No data available
Flammability (solid; gas).....	Not concerned
Upper / lower flammability of explosive limits	Not concerned
Vapor pressure.....	Not concerned
Vapor density	Not concerned
Relative density.....	1.03
Solubility.....	Not concerned
Partition coefficient: n-octanol/water.....	Not concerned
Auto-ignition temperature.....	Not concerned
Decomposition temperature.....	No data available
Viscosity.....	No data available
Explosive properties.....	Not concerned
Oxidizing properties.....	No data available
Other information.....	None

10. Stability and reactivity

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	Hygroscopic
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	No data available

11. Toxicological information

Acute toxicity	No data available
Skin corrosion / irritation	Irritating to eyes, respiratory system and skin
Serious eye damage / irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity.....	No data available
Reproductive toxicity.....	No data available
Specific target organ toxicity - single exposure.....	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

13. Disposal considerations

Product.....	Dispose of according to official regulation; contact a specialist in waste disposal services.
Contaminated packaging.....	Dispose of as unused product.

14. Transport information

Information	ADR/RID	IMDG	IATA
UN number	None	None	None
UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard classes	None	None	None
Packing group	None	None	None
Environmental hazards	None	None	None
Special precautions for user	No data available	No data available	No data available
Transport in bulk	Not concerned	Not concerned	Not concerned

HS code : 35 04 00 00 + country-specific extension

15. Regulatory information

Safety, health and environmental regulations.....	This datasheet complies with the Regulation EC 1907/2006.
Product specific legislation.....	No data available
Chemical safety assessment	No data available

16. Other information

This product must be used according to the corresponding instructions.

This product is for in vitro use only.

This data sheet completes the instructions for use but does not replace it. The information is based on our present knowledge relative to the product at the date it was issued. This safety information in no way dispenses users from thoroughly knowing and applying all regulatory texts relating to their activity. The user's attention is drawn to possible risks taken when manipulating the product for any purposes or in any way not allowed in this document. ApoH-technologies shall not be held liable for any damage resulting from handling or from contact with the above product.

Datasheet version	Modification
05/2012	Creation
10/2012	Contact information change, out-line change, minor corrections and application of the EC regulation N° 453/2010 amending the EC regulation N° 1272/2008
06/2013	Listing of a second reference of Buffer TTGB 10X : TP10004 1 mL and TP50004 50 mL
03/2014	Composition update
12/2014	Out-line change, update of HS code
12/2015	Product reference update