

Material Safety Datasheet (MSDS)

1. Product and company identification

Product identifier
Product uses
Supplier

Emergency telephone number

Buffer TT 20X (reference: TP10005)
Only for in vitro use in research and analysis laboratories.
ApoH-Technologies
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2. Hazards identification

Classification of the product.....
Label elements of EC regulation N° 1272/2008.....

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

Other hazards

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



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.



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) |

4. First aid measures

Description of first aid measures.....

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

Immediate medical attention and special treatment

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. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
No data available.

5. Firefighting measures

Extinguishing media

Special hazards arising from the substance or mixture.....
Advice for firefighters

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Carbon oxides, nitrogen oxides (NOx).
Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions and emergency procedures

Environmental precautions

Cleaning methods

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
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..... Clear liquid

Odor..... No data available

Odor Threshold..... No data available

pH..... No data available

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..... 1.353

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 Stable in recommended handling and storing conditions

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..... Irritant

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 : 38 22 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 |
|-------------------|---|
| 10/2012 | Creation |
| 06/2013 | Listing of a second reference of Buffer TT 20X : TP10005 1 mL and TP50005 50 mL |
| 12/2014 | Out-line change, update of HS code |
| 12/2015 | Product reference update |