
Safety Data Sheet

Section 1: Identification of the substance or mixture and of the supplier

- **Product name:** RNA Separation Buffer
- **Name of supplier:** Shimadzu Corporation
- **Address:** 1 Nishinokyo-Kuwabaracho, Nakagyo-ku, Kyoto 604-8511, Japan
- **Section in charge:** Clinical & Biotechnology Business Unit, Life Science Business Department
- **Telephone:** +81-75-823-1351
- **FAX:** +81-75-823-1364
- **Use of the product:** This product is for analytical research use only. Not applicable for clinical and/or diagnostic purposes.

Section 2: Hazards Identification

- **GHS classification:** Not Applicable / Classification not possible
- **Symbol:** Not Applicable
- **Signal word:** Not Applicable
- **Hazard statements:** -
- **Prevention:** -
- **Response:** -
- **Storage:** -
- **Disposal:** -

Section 3: Composition/information of ingredients

- **Substance/ mixture:** Mixture
- **General description:** Buffer solution including tris(hydroxymethyl)aminomethane.
- **Substances:** Tris(hydroxymethyl)aminomethane: CAS No. 77-86-1 <1%

Section 4: First-aid measures

- **Inhalation:** Remove to uncontaminated area and supply fresh air. Promptly consult doctor, if needed.
- **Skin contact:** Take off contaminated clothing and wash skin with plenty of water.
- **Eye contact:** Flush eyes with plenty of water for at least 15 minutes, and obtain medical attention.
- **Ingestion:** Drink plenty of water to induce vomiting, and obtain medical attention.

Section 5: Fire-fighting measures

- **Extinguishing media:** Use water mist, foam, powder, carbon dioxide, dry sand.
- **Specific hazards arising from fire-fighting:** Gases will form upon combustion of carbon monoxide, nitrogen oxides.
- **Special fire-fighting measures:** In case of fire in the surrounding area, promptly move the container to a safe place.

Section 6: Accidental release measures

- **Personal precautions:** Wear appropriate protective equipment
- **Environmental precautions:** Absorb as much of the material as possible with paper towel or sand.

Section 7: Handling and storage

- **Handling:** Wear personal protective equipment in order to prevent inhalation and the product from conducting eyes or skin.
- **Storage:** Keep tightly closed in dark cool place.

Section 8: Exposure controls/personal protection
Exposure limits: No occupational exposure limit values and/or biological limit values are established.
Permitted concentration: Japan Society for Occupational Health: Not established
ACGIH: Not established
Equipment measures: Eyewash equipments
Respiratory protection: Not required
Hand protection: Wear impervious glove.
Eye protection: Wear tightly sealed goggles.
Skin and body protection: Wear white coat.

Section 9: Physical and chemical properties

Appearance (Physical state, color, etc.): Colorless, transparent liquid
Odor: None
pH: 8.4 at 20°C
Melting/Freezing point: No data available
Boiling point/boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Vapor pressure: No data available
Density/relative density: No data available
Water solubility: Miscible
Auto ignition: The product does not combust spontaneously.
Decomposition temperature: No data available
Viscosity: No data available

Section 10: Stability and reactivity

Reactivity: No risk of hazardous reaction.
Stability: Stable at normal temperature and pressure.
Conditions/Materials to avoid: Oxidizing substances
Hazardous decomposition products: No information available

Section 11: Toxicological information

No data available for the mixture.

Section 12: Ecological information

No data available for the mixture.

Section 13: Disposal considerations

Residual waste: Dispose of contents/container according to all federal, state and local environmental regulations.
Contaminated container: After removing the contents, dispose of contents/container according to all federal, state and local environmental regulations.

Section 14: Transport information

US DOT, IMDG (sea), ADR/RID (land), ICAO/IATA (air): No classification assigned.
Prior to transport, make sure no leakage is observed from the bottle and stow a cargo without dropping and turning over.

Section 15: Regulatory information

The composition/information of ingredients is disclosed according to GHS. Comply with all countries, national and local regulation.
Section 16:  Other information

References
3) Ministry of Economy, Trade and Industry: GHS Mixture Classification System ver. 2.0

Information included in this document may be changed according to revision of laws and regulations or new discoveries, information, or test results. Although descriptions are based on reference materials, literature, and other information currently available, any values such as quantity and physical/chemical properties or evaluation described in this document are not guaranteed. Notes are provided assuming regular use. When using the material under special conditions, implement safety measures that are suitable for the intended purpose and use.
RNA Marker solution for MultiNA

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