

SAFETY DATA SHEET

according to Work Health and Safety Regulations 2011

50mM Tris Buffer

Version 2.0

Revision Date 29.06.2021

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 50mM Tris Buffer

Material number : S50-642

Manufacturer or supplier's detailsCompany : Capsugel Australia Pty Ltd.
Suite 610, 12 Century Circuit
Norwest NSW 2153, AustraliaLonza Ltd
Muenchensteinerstrasse 38
CH-4002 Basel, Switzerland

Telephone : Tel +61 3 9550 0883

Telefax : Tel +61 3 9550 0890

E-mail address : sds@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

Recommended use of the chemical and restrictions on use

Recommended use : Scientific research and development

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

If inhaled : No special precautions required.

In case of skin contact : Wash with water and soap as a precaution.
If skin irritation persists, call a physician.

50mM Tris Buffer

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| In case of eye contact | : Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist. |
| If swallowed | : Immediately give large quantities of water to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : No information available. |
| Notes to physician | : No information available. |

SECTION 5. FIREFIGHTING MEASURES

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| Suitable extinguishing media | : Water spray Dry powder Foam |
| Hazardous combustion products | : No hazardous combustion products are known |
| Specific extinguishing methods | : Use water spray to cool unopened containers. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. |
| Environmental precautions | : No special environmental precautions required. |
| Methods and materials for containment and cleaning up | : Wipe up with absorbent material (e.g. cloth, fleece). Dispose of in accordance with local regulations. |

SECTION 7. HANDLING AND STORAGE

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| Advice on protection against fire and explosion | : No special precautions required. |
| Advice on safe handling | : No special precautions required. |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practice. |
| Conditions for safe storage | : Store at room temperature. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

50mM Tris Buffer

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| Engineering measures | : | Use only in area provided with appropriate exhaust ventilation. |
| Personal protective equipment | | |
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Hand protection | | |
| Material | : | Nitrile rubber |
| Rate of permeability | : | > 480 min |
| Eye protection | : | Tightly fitting safety goggles |
| Skin and body protection | : | Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
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| Appearance | : | Aqueous solution |
| Colour | : | colourless |
| Odour | : | odourless |
| Odour Threshold | : | no data available |
| pH | : | 8 |
| Melting point/freezing point | : | no data available |
| Initial boiling point and boiling range | : | no data available |
| Flash point | : | Water |
| Evaporation rate | : | no data available |
| Flammability (solid, gas) | : | no data available |
| Flammability (liquids) | : | no data available |
| Upper explosion limit / upper flammability limit | : | no data available |
| Lower explosion limit / Lower flammability limit | : | no data available |
| Vapour pressure | : | no data available |
| Relative vapour density | : | no data available |
| Relative density | : | no data available |
| Density | : | no data available |

50mM Tris Buffer

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| Water solubility | : | completely soluble |
| Partition coefficient: n-octanol/water | : | no data available |
| Auto-ignition temperature | : | no data available |
| Decomposition temperature | : | no data available |
| Viscosity, dynamic | : | no data available |
| Viscosity, kinematic | : | no data available |

SECTION 10. STABILITY AND REACTIVITY

| | | |
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| Reactivity | : | Stable under recommended storage conditions. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Stable under normal conditions. |
| Conditions to avoid | : | no data available |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | No decomposition if stored normally. |

SECTION 11. TOXICOLOGICAL INFORMATION

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| Exposure routes | : | Eyes Skin |
|-----------------|---|--------------|

Acute toxicity

| | | |
|---------------------------|---|----------------------------|
| Acute oral toxicity | : | Remarks: no data available |
| Acute inhalation toxicity | : | Remarks: no data available |
| Acute dermal toxicity | : | Remarks: no data available |

Skin corrosion/irritation

Remarks: no data available

Serious eye damage/eye irritation

Remarks: no data available

Respiratory or skin sensitisation

Remarks: no data available

Germ cell mutagenicity

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|-----------------------|---|----------------------------|
| Genotoxicity in vitro | : | Remarks: no data available |
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Carcinogenicity

50mM Tris Buffer

Remarks: no data available

Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

Further information

Remarks: No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish : Remarks: no data available

Persistence and degradability

Biodegradability : Result: no data available

Bioaccumulative potential

Bioaccumulation : Remarks: no data available

Mobility in soil

Distribution among environmental compartments : Remarks: no data available

Other adverse effects

Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Contact waste disposal services.
Dispose of in accordance with local regulations.

50mM Tris Buffer

SECTION 14. TRANSPORT INFORMATION

IATA Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

IMDG Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : Marine pollutant: no

ADR Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

RID Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

Special precautions for user : none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not applicable

SECTION 16. OTHER INFORMATION

Revision Date : 29.06.2021

Full text of other abbreviations

50mM Tris Buffer

AIIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System
 Date format : dd.mm.yyyy

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