

# Safety Data Sheet

BIO-65111

BIO-65112

Thermostable MMLV-RT

**meridian** BIOSCIENCE™

# Thermostable MMLV-RT

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
 Date of original issue: 30/11/2021 Current revision: 30/11/2021 Version 1.0 Supersedes: None

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product form: Mixture  
 Product name: Thermostable MMLV-RT  
 CAS No.: N/A  
 EC No.: N/A  
 REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for analytical use  
 Uses advised against: Not described

#### 1.3 Details of the supplier of the safety data sheet

Bioline Reagents Ltd, part of Meridian Bioscience  
 Humber Road Phone: +44 (0)20 8830 5300  
 London Fax: +44 (0)20 8452 2822  
 NW2 6EW E-mail: [mbi.tech@meridianlifescience.com](mailto:mbi.tech@meridianlifescience.com)  
 United Kingdom

#### 1.4 Emergency telephone number

Emergency number: +44 (0)1865 407 333 – English speaking (24 hours, 7 days)  
 Contact: CareChem 24

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Thermostable MMLV-RT

##### Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture

#### 2.2 Label elements

Thermostable MMLV-RT

##### Labelling according Regulation (EC) No 1272/2008

Not a hazardous substance or mixture

| Hazard Statements (CLP) | Precautionary Statements (CLP) |
|-------------------------|--------------------------------|
| None                    | None                           |

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### 2.3 Other hazards

#### Possible hazards from physicochemical properties:

Some hazards associated with individual components of this mixture are not relevant because the substances are present in concentrations below the GHS cut-off levels, change of physical state or because the mixture/ solution is buffered to pH 4-9 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1/3.2 Substance or Mixture

#### Thermostable MMLV-RT

| Name, synonyms and formulae                           | Product Identifier                      | Composition | Classification according to Regulation (EC) No. 1272/2008 (CLP) |
|---|---|-------------|---|
| Glycerol,<br>1,2,3-Propanetriol<br>Glycerin<br>C3H8O3 | (CAS No.) 56-81-5<br>(EC No.) 200-289-5 | <5%         | Not a hazardous substance or mixture                            |

### 3.3 Remarks

List of H, EUR and P phrases: see section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | If necessary consult a physician. Show this safety data sheet to the medical professional in attendance.                          |
| First-aid measures after inhalation   | Remove to fresh air, keep the patient warm and provide resuscitation if necessary. If symptoms develop, obtain medical attention. |
| First-aid measures after skin contact | Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap.  |
| First-aid measures after eye contact  | After contact with the eyes rinse thoroughly with plenty of water for at least 15 minutes with the eyelid wide open.              |
| First-aid measures after ingestion    | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth and drink plenty of water.             |

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling section 2.2 and/or in section 11

Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional recommendations.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area.

|                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used. |
| Unsuitable extinguishing media | None known.   |

#### 5.2 Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Fire Hazard                                      | Not flammable.  |
| Hazardous decomposition products in case of fire | Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, Sodium oxides, Phosphorous oxides. |

#### 5.3 Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | Product package burns like paper or plastic.<br>Spray any vapours released with water.<br>Retain fire water where possible.   |
| Protection during firefighting | Protective breathing apparatus, independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of large-scale formation of toxic substances. |

#### 5.4 Additional Information

None.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| For non-emergency personnel | Evacuate unnecessary personnel.<br>Avoid breathing vapours, mist or gas.<br>Avoid contact with skin, eyes and clothing.<br>Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions.<br>Restrictions on activity must be observed. |
| For emergency responders    | Wear suitable protective equipment as defined in section 8.2<br>Prevent further leakage or spillage if safe to do so.<br>Avoid release of materials into the environment if safe to do so.   |

#### 6.2 Environmental precautions

Notify authorities if large amounts of the product enters sewers or public waters.

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### 6.3 Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| Small Scale release | <p>Make use of general chemical spill kit or other absorbent material.</p> <p>Clean any contaminated equipment and floors with plenty of water.</p> <p>Collect small amounts of leaked liquid and flush with copious amounts of water into drains.</p>                            |
| Large Scale release | <p>Bind any escaping liquid with inert absorbent material (sand, vermiculite or similar).</p> <p>Block/ prevent liquid entering any open drain.</p> <p>Collect contaminated materials and dispose in accordance to local regulations for the disposal of hazardous chemicals.</p> |

### 6.4 Reference to other sections

SECTION 5.4: Additional fire precautions.

SECTION 8: Exposure controls/personal protection.

SECTION 13: Disposal considerations.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | <p>Handling in accordance with the instructions supplied with the product.</p> <p>Provide adequate ventilation.</p> <p>Avoid breathing vapours, mist or gas.</p> <p>Avoid contact with skin, eyes and clothing.</p>   |
| Hygiene measures              | <p>Handle in accordance with good industrial hygiene and safety practice.</p> <p>Take off contaminated clothing and wash before reuse.</p> <p>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</p> |

### 7.2 Conditions for safe storage, including any incompatibilities

|                        |  |
|------------------------|--|
| Storage conditions     | <p>Keep only in the original container.</p> <p>Store in a cool well ventilated place out of direct sunlight.</p> <p>Keep container closed when not in use.</p> <p>Hygroscopic.</p> |
| Incompatible materials | <p>Store separately from: Bases, Oxidising agents.</p>   |

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

| Glycerol       |                               |  |
|----------------|-------------------------------|--|
| United Kingdom | WEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>   |
| United Kingdom | WEL TWA (ppm)                 | N/A  |
| United Kingdom | WEL STEL (mg/m <sup>3</sup> ) | N/A  |
| United Kingdom | WEL STEL (ppm)                | N/A  |
| United Kingdom | Remark (WEL)                  | Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used. |

#### 8.2 Exposure controls

|                                   |   |
|-----------------------------------|---|
| Appropriate engineering controls: | Good ventilation or extraction system in the room, floor resistant to chemicals and washing facilities available.   |
| General controls                  | Avoid all unnecessary exposure.<br>Handle in accordance with good industrial hygiene and safety practice.   |
| Respiratory protection            | Respiratory protection not required.<br>For nuisance exposures or if risk assessment requires, use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).  |
| Eye protection                    | Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU) with integrated side shields or wrap-around protection.  |
| Hand protection                   | Handle with gloves.<br>Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.<br>Wear protective gloves that satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.<br>Exact breakthrough times to be found through the manufacturer of the protective gloves and must be observed.<br>Gloves should be removed and replaced if there are any signs of degradation or breakthrough.<br><br>If used in solution, or mixed with other substances, and under conditions which differ from EN374, contact the supplier of the CE approved gloves. |
| Skin and body protection          | Long sleeved protective clothing.   |
| Thermal protection                | Not required for normal conditions of use.  |
| Other information                 | Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating.  |

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These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

| Thermostable MMLV-RT                        |                                    |
|---|------------------------------------|
| Physical state:                             | Liquid                             |
| Colour:                                     | No data available                  |
| Molecular Mass:                             | No data available                  |
| Odour:                                      | No data available                  |
| Odour threshold:                            | No data available                  |
| pH:   | No data available                  |
| Relative evaporation rate (butylacetate=1): | No data available                  |
| Melting point:                              | No data available                  |
| Freezing point:                             | No data available                  |
| Boiling point:                              | No data available                  |
| Flash point:                                | No data available                  |
| Auto-ignition temperature:                  | No data available                  |
| Decomposition temperature:                  | No data available                  |
| Flammability (solid, gas):                  | Not applicable                     |
| Vapour pressure:                            | No data available                  |
| Relative vapour density at 20 °C:           | No data available                  |
| Relative density:                           | ~1.0 g/cm <sup>3</sup> (Water = 1) |
| Solubility:                                 | No data available                  |
| Log Pow:                                    | No data available                  |
| Viscosity, kinematic:                       | No data available                  |
| Viscosity, dynamic:                         | No data available                  |
| Oxidising properties:                       | No data available                  |
| Explosive properties:                       | No data available                  |
| Explosive limits:                           | No data available                  |

#### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

**Relevant Properties of Substance Group:** None

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable under recommended conditions.

#### 10.3 Possibility of hazardous reactions

None known.

#### 10.4 Conditions to avoid

Extremely high or low temperatures.

#### 10.5 Incompatible materials

Bases, Oxidising agents.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – Carbon oxides, Nitrogen oxides, Hydrogen chloride gas, Sodium oxides, Phosphorous oxides.

In the event of fire: see section 5

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

|                                 |                             |
|---------------------------------|-----------------------------|
| Glycerol                        |                             |
| LD50 oral rat                   | 12,600 mg/kg                |
| LC50 inhalation rat 4hr         | >2.75 mg/l                  |
| LD50 Dermal rabbit              | 10,000 mg/kg                |
| LD50 Dermal guinea pig          | 56750 mg/kg                 |
| TSCA Inventory:                 | Listed (1,2,3-Propanetriol) |
| California Proposition 65 List: | Not listed                  |
| Australia NICNAS:               | Not listed                  |
| Canada CEPA 1999:DSL:           | Not listed                  |
| Japan CSCL/PRTR:                | Not listed                  |
| Japan PDSCL:                    | Not listed                  |
| Japan ISHL:                     | Not listed                  |
| South Korea TCCA:               | Not listed                  |
| Korea Exist.Chem.Inventory:     | KE-29297                    |
| RTECS:                          | MA8050000                   |

Quantitative data on the toxicity of this product is not available.

|                             |   |
|-----------------------------|---|
| <b>Thermostable MMLV-RT</b> |   |
| Acute toxicity              | Not classified.   |
| Additional information      | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation   | Not classified.   |
| Additional information      | Based on available data, the classification criteria are not met. |



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|  |  |
|--|--|
| Serious eye damage/irritation                        | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Respiratory or skin sensitisation                    | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Germ cell mutagenicity                               | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Carcinogenicity                                      | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Reproductive toxicity                                | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Specific target organ toxicity (single exposure)     | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Aspiration hazard                                    | Not classified.  |
| Additional information                               | Based on available data, the classification criteria are not met.                        |
| Potential adverse human health effects and symptoms: | Not expected to present a significant hazard under anticipated conditions of normal use. |

### SECTION 12: Ecological information

#### 12.1 Toxicity

|   |                |
|---|----------------|
| Glycerol  |                |
| Ecology - Water                                       | Not Classified |
| LC50 – Fish (Salmo gairdneri) 96hr                    | 54,000 mg/l    |
| LC50 - Bacteria, activated sludge                     | > 1,000 mg/l   |
| EC50 – Daphnia (daphnia magna, locomotor effect) 24hr | > 10,000 mg/l  |

Environmental hazards must not be labelled with P phrases until 125 mL or 125 g (EU 1272/2008 Annex I - 1.5.2).

#### 12.2 Persistence and degradability

|                |                   |
|----------------|-------------------|
| Glycerol       |                   |
| Biodegradation | No data available |

#### 12.3 Bioaccumulative potential

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Glycerol                            |                                     |
| Bioconcentration factor (BCF REACH) | No additional information available |
| Log Pow                             | -1.76                               |

#### 12.4 Mobility in soil

|                |                      |
|----------------|----------------------|
| Glycerol       |                      |
| Ecology - Soil | Miscible with water. |

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### 12.5 Results of PBT and vPvB assessment

|  |
|--|
| Glycerol   |
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6 Other adverse effects

|                                      |
|--------------------------------------|
| Glycerol                             |
| No additional information available. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                                 |  |
|---------------------------------|--|
| Waste disposal recommendations: | <b>Product</b><br>Offer surplus and non-recyclable solutions to a licensed disposal company. |
|                                 | <b>Contaminated packaging</b><br>Dispose of as unused product.                               |

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1 UN number

|               |               |
|---------------|---------------|
| UN-No. (ADR)  | Not regulated |
| UN-No. (IMDG) | Not regulated |
| UN-No. (IATA) | Not regulated |
| UN-No. (ADN)  | Not regulated |
| UN-No. (RID)  | Not regulated |

### 14.2 UN proper shipping name

|                             |               |
|-----------------------------|---------------|
| Proper Shipping Name        | Not regulated |
| Proper Shipping Name (IMDG) | Not regulated |
| Proper Shipping Name (IATA) | Not regulated |
| Proper Shipping Name (ADN)  | Not regulated |
| Proper Shipping Name (RID)  | Not regulated |

### 14.3 Transport hazard class(es)

|                                   |               |
|-----------------------------------|---------------|
| Transport hazard class(es) (ADR)  | Not regulated |
| Transport hazard class(es) (IMDG) | Not regulated |
| Transport hazard class(es) (IATA) | Not regulated |
| Transport hazard class(es) (ADN)  | Not regulated |
| Transport hazard class(es) (RID)  | Not regulated |

### 14.4 Packing group

|                      |               |
|----------------------|---------------|
| Packing group        | Not regulated |
| Packing group (IMDG) | Not regulated |
| Packing group (IATA) | Not regulated |
| Packing group (ADN)  | Not regulated |
| Packing group (RID)  | Not regulated |

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### 14.5 Environmental hazards

|                               |  |
|-------------------------------|--|
| Dangerous for the environment | No                                     |
| Marine pollutant              | No                                     |
| Other information             | No supplementary information available |

### 14.6 Special precautions for user

|                           |               |
|---------------------------|---------------|
| Overland transport        | Not regulated |
| Transport by sea          | Not regulated |
| Air transport             | Not regulated |
| Inland waterway transport | Not regulated |
| Rail transport            | Not regulated |

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list  $\geq 0,1\%$  / SCL

Contains no REACH Annex XIV substances

### 15.2 Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other Information

### 16.1 Full text of H, EUH and P statements

|      |     |
|------|-----|
| None | N/A |
|------|-----|

### 16.2 Training Advice

Regular safety training

### 16.3 Abbreviations and acronyms

|      |   |
|------|---|
| ADR  | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| ATE  | Acute Toxicity Estimate   |
| CAS  | Chemical Abstracts Service number   |
| CLP  | Classification, Labeling and Packaging  |
| DNEL | Derived No effect Limit   |
| EC   | European Community  |
| EC50 | Effective Concentration 50%   |
| EN   | European Norm   |
| IARC | International Agency for Research on Cancer   |
| IATA | International Air Transport Association   |
| IBC  | Intermediate Bulk Container   |
| IMDG | International Maritime Dangerous Goods Code   |
| IMO  | International Maritime Organisation   |
| LC50 | Lethal Concentration 50%  |
| LD50 | Lethal Dose 50%   |
| MAC  | Maximal Allowed Concentration   |
| O/W  | Oil-in-Water (chemistry)  |
| OECD | Organisation for Economic Co-operation and Development                                    |

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|        |  |
|--------|--|
| PBT    | Persistent, bioaccumulative and toxic  |
| PMcc   | Pensky-Martens Closed Cup test   |
| PNEC   | Predicted no effect concentration  |
| REACH  | Registration, Evaluation and Authorisation of Chemicals  |
| RID    | Règlement concernant le transport international ferroviaire de marchandises                    |
| STEL   | Short Term Exposure Limit  |
| TWA    | Time Weighted Average  |
| UNXXXX | Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods |
| vPvB   | Very persistent and very bioaccumulative   |

### 16.4 Recommended Restriction on Use

Only for professional user working under controlled conditions.

Consider employee restrictions for young people (e.g. 94/33/EC)

Consider employee restrictions for pregnant women and nursing women (e.g. 92/85/EEC)

### 16.5 Further Information

**Bioline Reagents Ltd**, part of Meridian Bioscience, provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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### 16.6 Sources of Key Data

UK – Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). Guidance Workplace Exposure Limits EH40.

EU – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress. Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC TRGS 900, German engineering rules governing limits in air at work, updated February 2015 SUVA .CH, Limits in air at work 2009, revised on 01.2009. KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)., updated October 2011

Republic of China – 职业病防治法

USA – Occupational Safety and Health Administration (OSHA) Occupational Exposure Limits - Table Z-1 Limits for Air Contaminants. The American Conference of Governmental Industrial Hygienists (ACGIH).

Australia - Work Health and Safety (WHS) Act and the WHS Regulations.

Canada – Hazardous Products Regulations SOR/2015-17