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MATERIAL SAFETY DATA SHEET

TB-MBLA Assay Mix

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008 and associated UK Regulations.

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

1.1 Product identifier
TB-MBLA Assay Mix

1.2 Relevant identified uses of the substance or mixture and uses advised against
Laboratory chemical, medical diagnostics

1.3 Details of the supplier of the safety data sheet

Address: LifeArc, Nine Bioquarter, 9 Little France Road, Edinburgh, EH16 4UX, UK

E mail: TB-MBLA@lifearc.org

1.4 Emergency telephone number
Telephone 09.00 – 17.00 Monday-Friday – +44 (0)20 7391 2700

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the EU Classification Labelling and Packaging Regulation EC (no) 1272/2008, UK CLP and United Nations GHS.

Not classified hazardous.

2.2 Label elements


Labelling in accordance with the EU Classification Labelling and Packaging Regulation EC (no) 1272/2008, UK CLP and United Nations GHS.

No specific labelling requirements. Product is considered non-hazardous.

2.3 Other hazards

No hazards have been identified if the product is handled and used as recommended.

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SECTION 3: Composition

3.1 Substances

Not applicable - product is a mixture.

3.2 Mixtures

Blend of deoxyribonucleic acid and oligo deoxyribonucleic acid in IDTE buffer solution.

Name	CAS or EC No,	Concentration	Classification
No hazardous constituents above thresholds of concern	N/A	N/A	N/A

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Rinse thoroughly with water for several minutes and obtain medical attention if signs of discomfort.

INHALATION: No known hazard from inhalation. If discomfort following exposure, seek medical advice.

SKIN CONTACT: If unintentional skin contact, wash off with water.

INGESTION: If swallowed, rinse mouth with water. Obtain medical attention if signs of discomfort or if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

EYE CONTACT: If liquid gets into the eye it may cause redness, stinging, watering of the eye.

INHALATION: Symptoms unlikely from normal use.

SKIN CONTACT: No known adverse effects.

INGESTION: Ingestion of the liquid is not expected to cause adverse effects.

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Non-flammable water-based product. Will not support combustion.

Use extinguishing media suitable for surrounding area.


5.2 Special hazards arising from the substance or mixture

No special hazards.

5.3 Advice for fire fighters

No special advice.

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SECTION 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
 No specific risk from spillage.
 In case of large spill (> 10 litres) exclude unnecessary personnel. Open doors and windows to ensure good ventilation.
- 6.2 Environmental precautions**
 Prevent entry of large quantities into sewers and watercourses.
- 6.3 Methods and materials for containment and clearing up**
 Absorb onto paper or mineral spill containment products. Collect and place in a sealable container for disposal as low-hazard chemical waste. Clean area of spill to prevent slip hazard.
- 6.4 References to other sections**
 See section 8 and 13 for further advice.

SECTION 7: Handling and Storage


- 7.1 Precautions for safe handling**
 Avoid contact with eyes and unnecessary prolonged contact with skin.
- 7.2 Conditions for safe storage, including any incompatibilities**
 Store in its original labelled container in a cool, well-ventilated area, away from heat, sparks and other sources of ignition. Keep out of reach of children and animals.
- 7.3 Specific end uses(s)**
 No special precautions.

SECTION 8. Exposure Controls/Personal Protection

- 8.1 Control parameters**
 - Exposure limits**
 No specific exposure limits apply.
- 8.2 Exposure controls**
 - Engineering controls**
 Normal room ventilation is expected to be adequate.
 - Respiratory protection**
 Not required.
 - Hand Protection**
 For industrial or professional use, or if prolonged contact is expected, then suitable gloves may be required. Butyl rubber or nitrile rubber are considered suitable, but glove manufacturer recommendations should always be checked.
 - Eye protection**
 If being handled in bulk, safety glasses or goggles may be appropriate.
 - Skin protection**
 For industrial or professional use, or if prolonged contact is expected, then suitable protective clothing should be worn. Remove protective clothing when contaminated and wash before reuse.

Environmental Exposure Controls

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Not normally required.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

- a) **Physical state**
Mobile liquid
- b) **Colour**
Colourless
- c) **Odour**
No specific odour
- d) **Melting point/freezing point**
Freezing < 0 C
- e) **Boiling point or initial boiling point and boiling range**
Boiling > 100 C
- f) **Flammability**
Will not support combustion
- g) **Lower and upper explosion limit**
Not applicable; not considered potentially explosive
- h) **Flash point**
Flashpoint > 100 C. Will not support combustion
- i) **Auto-ignition temperature**
Will not combust
- j) **Decomposition temperature**
Stable to 100 C
- k) **pH**
Neutral; pH 7-8
- l) **Kinematic viscosity**
As for water
- m) **Solubility**
Miscible in water
- n) **Partition coefficient n-octanol/water (log value)**
None of the components are considered accumulative
- o) **Vapour pressure**
As for water
- p) **Density and/or relative density**
Relative density similar to water
- q) **Relative vapour density**
Not applicable
- r) **Particle characteristics**
Liquid

9.2 Other information

No volatile organic compounds.


9.2.1 Information with regard to physical hazard classes

No physical hazard classification.

9.2.2 Other safety characteristics

No other safety characteristics.

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SECTION 10: Stability and Reactivity


- 10.1 Reactivity**
Not considered to be reactive.
- 10.2 Chemical stability**
S table under normal conditions.
- 10.3 Possibility of hazardous reactions**
N ne expected.
- 10.4 Conditions to avoid**
No specific conditions.
- 10.5 Incompatible materials**
Avoid contact with strong oxidisers.
- 10.6 Hazardous decomposition products**
None known.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components. A cosmetic Product Safety Report has been prepared.

- | | |
|---|--|
| (a) acute toxicity | Based on components, does not present an acute toxicity hazard |
| (b) skin corrosion/irritation | Not irritating to skin |
| (c) serious eye damage/irritation | If product gets into the eye it may cause mild discomfort |
| (d) respiratory/skin sensitisation | No ingredient known to be potentially sensitising |
| (e) germ cell mutagenicity | No ingredient known to be potentially mutagenic |
| (f) carcinogenicity | No ingredient known to be potentially carcinogenic |
| (g) reproductive toxicity | No ingredient known to be potentially toxic for reproduction |
| (h) STOT-single exposure | No ingredient known to have an adverse effect |
| (i) STOT-repeated exposure | No ingredient known to have an adverse effect |
| (j) aspiration hazard | Not an aspiration hazard |

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SECTION 12: Ecological Information

- 12.1 Toxicity**
Based on components, not hazardous to the environment.
- 12.2 Persistence and degradability**
Organic components are considered rapidly biodegradable. No organic components are considered persistent.
- 12.3 Bioaccumulative potential**
Organic components are readily metabolised and not expected to bioaccumulate.
- 12.4 Mobility in soil**
Organic components will quickly degrade.
- 12.5 Results of PBT and vPvB assessment**
Organic components are not considered to be PBT or vPvB.
- 12.6 Other adverse effects**
None known.

SECTION 13: Disposal Considerations


- 13.1 Waste treatment methods**
Waste should be disposed of in accordance with local regulations.
Unused bulk product may be disposed of as low-hazard waste.

SECTION 14: Transport Information

Not classified for transport hazard.

SECTION 15: Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
All components are listed as existing substances in Europe.
No components are listed under US OSHA as a potential carcinogen.
California Prop 65: None of the ingredients need declaration as carcinogen, mutagen or toxic for reproduction.
Potential allergens are listed in Section 3 under Cleaning Product right to know Act 2017.
- 15.2 Chemical Safety Assessment**
Substances registered under EU REACH have been assessed for laboratory use.

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SECTION 16: Other Information

Revision information:

This is the first SDS prepared in accordance with the REACH Regulation 1907/2006 and corresponding UK legislation.

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service
 CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
 EC European Community/Commission
 OSHA Occupational Safety and Health Administration (US)
 PBT Persistent, Bioaccumulative and Toxic
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
 SVHC Substance of Very High Concern
 vPvB very Persistent, very Bioaccumulative

References:

EU CLP Regulation 1272/2008
 Source: European Chemicals Agency, <http://echa.europa.eu/> (May 2021)

Method used for classification of mixtures:

Ingredient based approaches.

H Statements used in Section 3

None

Training requirements for workers

Important to review instructions for use and specific training for use of diagnostic kits.

Revision History

Revision	Section	Details of Changes	Change Control Number	Initials
A	All	Initial Issue	CC/2022/85	JA