

# **SAFETY DATA SHEET**

Product Name Linear DNA Master Mix - Bulk Product Number 508005, 508025, 508099

Kit Components LS70 Master Mix

## 1. COMPANY AND PRODUCT IDENTIFICATION

Kit Component Name LS70 Master Mix

Product Number n/a

**Recommended use Uses advised against**For research use only
No information available

Supplier Address Daicel Arbor Biosciences

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Emergency Phone Number +1 (800) 222-1222 (American Association of Poison Control Centers)

Available 24 hours everyday

## 2. HAZARD(S) IDENTIFICATION

#### **Emergency Overview**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. Use prudent laboratory practices for handling chemical substances.

Appearance Clear, slightly amber Physical State Liquid Odor Odorless

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

LS70 Master Mix is a mixture of hazardous substances and non-hazardous substances. The exact concentration percentages of those substances may be withheld as a Daicel Arbor Bioscience trade secret.

Component	CAS-No	%
Tris base	77-86-1	1-5
Potassium acetate	127-08-2	1-5
Magnesium acetate	142-72-3	1-5
Substance 1-31	Trade Secret	85-97

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. FIRST-AID MEASURES

#### **General Advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin Contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention

immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Note to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Substance is non-flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

## **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### **Personal Precautions**

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing.

#### Personal Protective Equipment [PPE]

Use personal protection recommended in Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **Environmental Precautions**

Should not be released into the environment.

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for Cleaning Up**

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. This material and its container must be disposed of as hazardous waste.

## 7. HANDLING AND STORAGE

### Advice on Safe Handling

Handle in accordance with good industrial hygiene and safety practice.

#### **Storage Temperature**

Refer to the current version of the myTXTL Handbook available at <a href="www.arborbiosci.com">www.arborbiosci.com</a> for specific information.

## **Storage Conditions**

Keep/store only in original container. Keep tightly closed in a dry and cool place.

## **Incompatible Materials**

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Exposure Guidelines**

This product does not contain any hazardous materials.

## Personal protective equipment (PPE)

Refer to OSHA's regulations in 29 CFR 1910.133 or European Standard EN166 for eye/face protection and 29 CFR 1910.134 or European standard EN149 for respiratory protection.

Eye/face Protection Wear safety glasses with side shields (or goggles). Skin and Body Protection Wear suitable protective clothing and gloves.

Respiratory Protection Use in well ventilated areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety

practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Liquid

Appearance Clear, slightly amber

Oder Odorless

Property Notes/Method

pH 8.0 at 20°C (68°F)
Melting Point/Freezing Point No information available

Boiling Point/Boiling Range 100°C (212°F)
Flash Point Not applicable

Evaporation Rate Flammability (solid, gas) No information available

Flammability Limit in Air

Upper Flammability Limit

Lower Flammability Limit

Not applicable

Not applicable

Vapor Pressure
Vapor Density
Relative Density
Specific Gravity
Water solubility
Solubility in Other Solvents
No information available

Partition Coefficient
Autoignition Temperature
Decomposition Temperature
Kinematic Viscosity
Dynamic Viscosity
No information available
No information available
No information available
No information available

Explosive Properties Not explosive Oxidizing Properties Not oxidizing

Other Information

Softening Point No information available

Molecular Weight Not applicable VOC Content (%) Not applicable Density Not applicable

Bulk Density

No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** No data available.

**Stability** Stable under Normal Conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible materials. Ignition sources. Heat. Exposure to air or

moisture over prolonged periods.

Incompatible Materials Strong Oxidizing Agents.

Hazardous Decomposition Products None known

## 11. TOXILOGICAL INFORMATION

# Acute Toxicity Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Eye Contact Redness. May cause slight irritation.

Skin Contact Prolonged contact may cause redness and irritation. Repeated exposure may cause skin

dryness or cracking.

Ingestion May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and

respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of

breath, headache, nausea, and vomiting.

**Chronic Toxicity** 

Skin Corrosion/Irritation Mild
Serious Eye Damage/Eye Irritation Mild
Irritation Mild
Corrosivity Mild
Sensitization

Skin
Respiratory
No information available
No information available
No information available
No information available
Reproductive Toxicity
No information available

STOT - Single Exposure
STOT - Repeated Exposure
Chronic Toxicity
No information available
No information available
No information available
No information available

Target Organ Effects Kidneys, Respiratory system, Eyes, Skin.

Neurological Effects No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

Aspiration Hazard No information available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and terrestrial)** Do not empty into drains.

Persistence and Degradability

No information available

Bioaccumulative Potential No information available

Mobility in Soil No information available

Other Adverse Effects Ozone depletion potential (ODP)

No information available

## 13. DISPOSAL CONSIDERATIONS

#### **Relevant Information**

Keep out of drains, sewers, ditches, and waterways.

#### **Disposal Considerations**

Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

#### **Contaminated Packaging**

Empty containers must be tripled rinsed prior to disposal.

# 14. TRANSPORT INFORMATION

DOT Not regulated **TDG** Not regulated Not regulated MEX ICAO (air) Not regulated Not regulated IATA **IMDG** Not regulated RID Not regulated ADR Not regulated Not regulated AND

## 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies DSL Complies NDSL Complies

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

# **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **International Regulations**

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Canadian NPRI Not Listed WHIMIS (Canada) Not Classified

## **16. OTHER INFORMATION**

#### Training advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared by Daicel Arbor Biosciences

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Version 02

**Revision Note** SDS is valid three (3) years from revision date. Contact <a href="mailto:info@arbor.daicel.com">info@arbor.daicel.com</a> for latest revision.

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#### Disclaimer

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the creation date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Daicel Arbor Biosciences, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the

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product. Daicel Arbor Biosciences will not be liable for any damages resulting from handling or contact with the product.

**End of Safety Data Sheet**