

## Safety Data Sheet

**LIBERATION ENZYME (LE)**DNASCRIP<sup>T</sup>

According to the Inspection Procedures for the Hazard Communication Standard (HCS 2012) Regulation

Version: 1  
Version date: 28/09/2020  
Language: EN**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**Trade name/designation : LIBERATION ENZYME (LE)  
Article No (user) : 4S100109.24**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Laboratory reagents for the operation of our DNA printer.

**1.3. Details of the supplier of the safety data sheet**Supplier :  
Name: DNA Script, Inc.  
Street: 279 East Grand Avenue  
Postal code/City: Suite 440 South San Francisco CA 94080  
Telephone: 650.457.0846  
Website: www.dnascript.com**1.4. Emergency Telephone Number**

U.S: In case of emergency, call American Association of Poison Control Centers 800-222-1222 (US)

**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Hazards identification**

This mixture is not classified as dangerous.

**2.2. Label elements****Labelling**Hazard pictograms -  
Signal word -  
Product identifiers -  
Hazard Statements -  
Supplemental Hazard information (EU) -  
Precautionary Statements - General -  
Precautionary Statements - Prevention -  
Precautionary Statements - Response -  
Precautionary Statements - Storage -  
Precautionary Statements - Disposal -

Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

This product does not contain any hazardous ingredients at or above regulated thresholds.

### 3.2. Mixtures

No data available.

### 3.3. Remark

Full text of H- phrases: see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General information	:	When in doubt or if symptoms are observed, get medical advice.
Following inhalation	:	No special measures are necessary. Provide fresh air.
Following skin contact	:	Wash with soap and water.
Following eye contact	:	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
Following ingestion	:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Self-protection of the first aider	:	No special measures are necessary.

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

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

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

Notes for the doctor	:	Treat symptomatically.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media	:	Foam. Extinguishing powder. Carbon dioxide (CO <sub>2</sub> ). Sand.
Unsuitable extinguishing media	:	Strong water jet.

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

- Formation of toxic gases is possible during heating or in case of fire.

### 5.3. Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

- Do not inhale vapors and fumes.
- Co-ordinate fire-fighting measures to the fire surroundings.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.
- Use water spray jet to protect personnel and to cool endangered containers.

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

- Use personal protection equipment.
- Use appropriate respiratory protection.
- Provide adequate ventilation.

### 6.2. Environmental precautions

- Ensure that waste is collected and contained.
- Contain leaks or spills within cabinets with removable trays.

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

- Treat the recovered material as prescribed in the section on waste disposal.
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Wipe up with absorbent material (eg. cloth, fleece).

### 6.4. Reference to other sections

- Safe handling: see section 7.
- Disposal: see section 13.
- Personal protection equipment: see section 8.

### 6.5. Additional information

Not available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### PROTECTIVE MEASURES

- No special measures are necessary.
- Use only in well-ventilated areas.
- If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Vapours/aerosols should be exhausted directly at the point of origin.

#### Advices on general occupational hygiene

- Wash hands before breaks and after work.
- Remove contaminated, saturated clothing.
- Work in well ventilated zones or use proper respiratory protection.

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

- Keep container tightly closed in a dry, cool, and well-ventilated place.
- Keep container in upright position in order to prevent leakage.

#### Requirements for storage rooms and vessels

- Ensure adequate ventilation of the storage area.

#### Advice on joint storage

- Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end uses

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

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Not available

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Personal protection equipment

Not available

Eye/face protection	:	Suitable eye protection: No data available
Skin protection	:	Hand protection: No data available Body protection: Lab coat.
Respiratory protection	:	Respiratory protection necessary at: If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protection apparatus: Wear respiratory protection. <b>Remark:</b> - The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. - Observe the wear time limits as specified by the manufacturer.

#### Environmental exposure controls

No special measures are necessary.

### 8.3. Additional information

Not available

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	Liquid
Colour:	Transparent
Odour:	Not available
Odour threshold:	Not available
pH:	7.5
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Solubility(ies):	Not available
Partition coefficient: n-octanol/water (Log KOC):	Not available

Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

## 9.2. Other safety information

Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is chemically stable under the recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

### 10.7. Additional information

Not available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Acute oral toxicity

#### Data for mixture

Not available

#### Substances

Not available

### 11.2. Acute skin toxicity

#### Data for mixture

Not available

#### Substances

Not available

## 11.3. Acute inhalation toxicity

### Data for mixture

Not available

### Substances

Not available

## 11.4. Skin corrosion

### Data for mixture

Not available

### Substances

Not available

## 11.5. Eye damage

### Data for mixture

Not available

### Substances

Not available

## 11.6. Skin sensitisation

### Data for mixture

Not available

### Substances

Not available

## 11.7. STOT RE

### Data for mixture

Not available

### Substances

Not available

## 11.8. STOT SE

### Data for mixture

Not available

## Substances

Not available

### 11.9. STOT RE

#### Data for mixture

Not available

## Substances

Not available

### 11.10. Carcinogenicity

#### Data for mixture

Not available

## Substances

Not available

### 11.11. Reproductive and Developmental Toxicity

#### Data for mixture

Not available

## Substances

Not available

### 11.12. Genotoxicity

#### Data for mixture

Not available

## Substances

Not available

### 11.13. In vitro genotoxicity

#### Data for mixture

Not available

## Substances

Not available

### 11.14. Respiratory sensitisation

#### Data for mixture

Not available

#### Substances

Not available

#### Additional information

Not available

#### Carcinogenicity

Not available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

### 12.7. Additional ecotoxicological information

Not available

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Product/Packaging disposal

#### Waste treatment options

- Dispose of waste according to applicable legislation.
- Non-contaminated packages must be recycled or disposed of.
- Contaminated packing must be completely emptied and can be reused after proper cleaning.
- Packing which cannot be properly cleaned must be disposed of.
- Dispose of waste according to applicable legislation.

#### Remark

- For recycling, contact manufacturer.

## SECTION 14: TRANSPORT INFORMATION



	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI/IATA-DGR)
14.1. UN number	-	-	-	-
14.2. UN proper shipping name	-	-	-	-
14.3. Transport hazard class(es)				
Class or Division	-	-	-	-
Hazard label(s)				
14.4. Packing group	-	-	-	-

#### 14.5. Environmental hazards

Not regulated.

#### 14.6. Special precautions for user

Not regulated.

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated.

#### 14.8. Additional information

Not available

### SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with HazCom 2012.

Not available

#### 15.2. Chemical Safety Assessment

Not available

#### 15.3. Additional information

Not available

### SECTION 16: OTHER INFORMATION

Creation date: 28/09/2020  
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#### 16.1. Indication of changes

Not applicable (first edition of the MSDS).

#### 16.2. Abbreviations and acronyms

CAS: Chemical Abstract Service Number.  
IATA: International Air Transport Association.  
IMDG: International Maritime Dangerous Goods Code.  
DPD Dangerous Preparation Directive.  
UN number: United Nations number.  
No EC: European Commission Number.  
DOT: Department of Transportation.  
HCS/HazCom: Hazard Communication.

## 16.3. Key literature references and sources for data

No data available.

## 16.4. The classification of the mixture is in accordance with the evaluation method described in HazCom 2012

The classification of the mixture is in accordance with the evaluation method described in HazCom 2012.

## 16.5. The classification of the mixture is in accordance with the evaluation method described in the GHSNot available

## 16.6. Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

## 16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.