

SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

Product Name Plasmid DNA, HP-grade (pTXTL-xxxxx)

Product Number 502117, 502134, 502135, 502136, 502138, 502139, 502199

Recommended useFor research use only **Uses advised against**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 Colorless Physical State Liquid Odor Odorless

3. COMPOSITION/INFORMATION ON INGREDIENTS

Daicel Arbor Biosciences plasmids vectors, HP-grade are dissolved in nuclease-free, molecular biology grade water.

Component	CAS-No	%
Deoxyribonucleic acids	9007-49-2	99

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 Product Data Sheet 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
Oder Odorless

Property Notes/Method

pH Not applicable

Melting Point/Freezing Point

No information available

Boiling Point/Boiling Range

Not applicable

Flash Point Not applicable

Not applicable

Evaporation Rate Flammability (solid, gas) No information available

Flammability Limit in Air
Upper Flammability Limit
Not applicable
Not applicable

Upper Flammability Limit
Lower Flammability Limit
Vapor Pressure
Vapor Density

Not applicable
No applicable
No information available
No information available

Relative Density

Specific Gravity

Water solubility

Solubility in Other Solvents

Partition Coefficient

Autoignition Temperature

No information available
No information available
No information available
No information available

Decomposition Temperature

Kinematic Viscosity

Dynamic Viscosity

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
VOC Content (%)

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

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

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 info@arbor.daicel.com for latest revision

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Disclaimer

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End of Safety Data Sheet