

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Plasmid and Linear DNA (pTXTL-xxxxx)

Product Number 502117, 502134, 502135, 502136, 502138, 502139, 502199, 508009

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

Recommended useUses advised against
For research use only No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address Daicel Arbor Biosciences

5840 Interface Drive, Suite 101

Ann Arbor, MI 48103

USA

 Email
 info@arbor.daicel.com

 Phone
 + 1 (734) 998-0751

1.4. Emergency telephone number

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

Available 24 hours everyday

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

There is no harmonized classification and there are no notified hazards by manufacturers, importers or downstream users for this product.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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

Chemical name	EC No	CAS No	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH STATUS
Deoxyribonucleic acids	n/a	9007-49-2	99	n/a	n/a

There are no 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.

Section 4: FIRST AID MEASURES

4.1. Description of 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.

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

symptoms occur.

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.

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

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

Symptoms No information available.

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

Note to Physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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.

5.2. Special hazards arising from the substance or mixture

Specific Hazards Arising from the

Chemical

Thermal decomposition can lead to release of irritating gases and

vapors.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full

firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas. Avoid

contact with skin, eyes and clothing.

For emergency responders Use personal protection recommended in Section 8.

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6.2. Environmental precautions

Environmental Precautions Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning UpSoak 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.

6.4. Reference to other sections

Reference to other sectionsSee section 8 for more information. See section 13 for more

information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

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 MaterialsNone known based on information supplied.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure LimitsThis product, as supplied, does not contain any hazardous materials

with occupational exposure limits established by the region-specific

regulatory bodies

Derived No Effect Level (DNEL)No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations are close to the workstation location.

Ensure that showers are close to the workstation location.

Personal protective equipment (PPE)

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid Appearance Clear Oder Odorless

<u>Property</u> <u>Values</u> Remarks / Method

pH Not applicable

Melting Point/Freezing Point No information available

Boiling Point/Boiling Range Not applicable Flash Point Not applicable

Evaporation Rate No information available

Flammability (solid, gas)

Flammability Limit in Air

Upper Flammability Limit

Lower Flammability Limit

Not applicable

Not applicable

Not applicable

Vapor Pressure
Vapor Density
Relative Density
No information available

Autoignition Temperature -

Decomposition Temperature
Kinematic Viscosity

Dynamic Viscosity

No information available
No information available
No information available

Explosive Properties - Not explosive Oxidizing Properties - Not oxidizing

9.2. Other information

Softening Point
Molecular Weight
VOC Content (%)
Density
No information available

Section 10: STABILITY AND REACTIVITY

Product is not self-igniting

10.1. Reactivity

Reactivity No data available.

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10.2. Chemical stability

Stability Stable under Normal Conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions Non under normal processing.

10.4. Conditions to avoid

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

moisture over prolonged periods.

10.5. Incompatible materials

Incompatible Materials Strong Oxidizing Agents.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known

Section 11: TOXILOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

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

Information on toxicological effects

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.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

Respiratory or skin sensitization
Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard
No information available
No information available
No information available
No information available

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and Degradability

No information available

12.3. Bioaccumulative potential

Bioaccumulative Potential No information available

12.4. Mobility in soil

Mobility in Soil No information available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available

12.6. Other adverse effects

Other Adverse Effects Ozone depletion potential (ODP)

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

Disposal ConsiderationsUse 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.

None

Section 14: TRANSPORT INFORMATION

IMDG

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing GroupNot regulated14.5Marine pollutantNot applicable

14.6 Special Provisions

RID

14.1UN/ID noNot regulated14.2Proper shipping nameNot regulated14.3Hazard ClassNot regulated14.4Packing GroupNot regulated14.5Environmental hazardNot applicable

14.6 Special Provisions None

ADR

14.1 UN/ID no
14.2 Proper shipping name
14.3 Hazard Class
14.4 Packing Group
14.5 Environmental hazard
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Provisions None

IATANot regulated14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing GroupNot regulated14.5 Environmental hazardNot applicable14.6 Special ProvisionsNone

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Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

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

15.2. Chemical safety assessment

Chemical Safety Report No information available

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

Section 16: OTHER INFORMATION

Training advice

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

Prepared byDaicel 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.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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Disclaimer

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End of Safety Data Sheet