



1. Product and Company Identification

Product Name: FOUNDATION™ ssDNA 7249
M13mp18 Single-stranded DNA
Scaffold 7249, p7249

Product Number: D441-010

Recommended use of the chemical and restrictions on use

Recommended use: This product is for research and development use only.
Uses advised against: No information available.

Details of the supplier of the safety data sheet

Manufacturer: Guild BioSciences
4412 Tuller Road
Dublin, OH 43017

Telephone: 1-888-704-4273 (toll free)
Fax: 1-614-467-3722
Email address: info@guildbiosciences.com

Emergency telephone number

Emergency Number: 1-888-704-4273 (toll free)

2. Hazards Identification

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Physical Appearance: Clear, colorless liquid, mild odor
Hazards: The product contains no substances which at their given concentration are considered to be hazardous to health.

Emergency Overview

The product contains no substances which, at their given concentration, are considered to be hazardous to health

3. Composition and Information of Ingredients

Components by % Weight: M13mp18 single-stranded DNA <0.01%
Tris-EDTA Buffer >99.99%

10mM Tris base (pH 8.0)	CAS-No. 77-86-1
1mM Ethylenediamine Tetraacetic Acid (EDTA)	CAS-No. 6381-92-6

See MSDS of individual components if further information is required.

4. First Aid Measures

Upon Contact:

Eyes:	Immediately flush eyes with plenty of water for 15 min. Seek medical attention if irritation develops.
Skin:	Wash contaminated skin with soap and plenty of water. Seek medical attention if irritation develops.
Inhalation:	Move person into fresh air.
Ingestion:	Wash mouth out with water. Do not induce vomiting unless directed to do so by medical personnel. Consult physician if vomiting occurs.

Most important symptoms and effects, both acute and delayed

No information available

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. Fire-Fighting Measures

Suitable extinguishing material

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing material

Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the product

No information available.

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. Use personal protection equipment (PPE) as recommended in Section 8.

Environmental Precautions

See Section 12 for additional ecological information.

Containment Materials

Prevent further leakage or spillage if safe to do so.

Methods for clean 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

Handling

Keep container closed when not in use. Handle in accordance with good industrial hygiene and safety practice.

Storage

Store only in original container. Keep container frozen at -20°C. Carefully read all label instructions.

Incompatible materials

None known based on information supplied

8. Exposure Controls and Personal Protection

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls

Ensure that eyewash and shower stations are close to the workstation location.

Personal Protective Equipment

Eye Protection:	Safety glasses tested and approved under appropriate government standards such as OSHA (US) 29 CFR § 1910.133 or European Standard (EU) EN166, should be worn whilst using this substance.
Body and skin:	A laboratory coat, nitrile gloves, and non-porous closed toe shoes should be worn when handling this substance.
Respiratory:	Use in well ventilated areas. See respiratory protection regulations OSHA (US) 29 CFR § 1910.134 or European Standard (EU) EN149.

9. Physical and Chemical Properties

Physical state:	Liquid
Color:	Colorless
Odor:	Mild
pH:	8.5
Boiling Point:	Lowest known value is 99.9°C (211.8°F)
Melting/Freezing Point:	May start to solidify at -0.1°C (31.8°F)
Flash Point:	Not available
Flammability Limits:	Not available
Vapor Pressure:	Not available
Vapor Density (vs. air):	Not available
Density (vs. water):	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Evaporation Rate:	Not available
Solubility:	Soluble in water and other organic solvents.
Viscosity:	Not available

10. Stability and reactivity

Stability and Reactivity:	Stable under recommended storage conditions.
Conditions of Instability:	Exposure to heat. Incompatible materials.
Substance Incompatibility:	Strong oxidizing agents.
Decomposition Products:	Thermal decomposition can lead to release of irritating and toxic gases and vapors of carbon monoxide (CO) and carbon dioxide (CO ₂).

11. Toxicological Information

Likely routes of exposure:

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 and 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.

Information on toxicological effects

No information available.

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

Skin corrosion/irritation	Mild
Serious eye damage/irritation	Mild
Irritation	Mild
Corrosivity	Mild
Sensitization	
Skin	No information available
Respiratory	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
Developmental toxicity	No information available
Teratogenicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	No information available
Subchronic toxicity	No information available
Target organ effects	Kidneys, Eyes, Skin, Respiratory system.
Neurological effects	No information available
Other adverse effects	No information available
Aspiration hazard	No information available

Numerical measures of toxicity

Acute Toxicity	
Oral LD50	Not available
Inhalation LC50	Not available
Dermal LD50	Not available

12. Ecological Information

Marine pollutant	Not available.
Ecotoxicity	Not available.
Bioaccumulative Potential	Not available.
Degradation products	Not toxic
Mobility in soil	Not available.
Ozone	No information available
Ozone depletion potential (ODP)	No information available

13. Disposal Considerations

Substance and Container

Contact a licensed professional waste disposal service to dispose of this substance and its container. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of waste in accordance with all applicable Federal, State and local laws. Keep out of drains, sewers and other waterways.

14. Transport Information

DOT Classification: Not regulated

TDG Classification: Not regulated

15. Regulatory information

OSHA Hazards

No known OSHA hazards.

SARA 302 Components

SARA 302: No chemicals in this substance are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA hazards.

CERCLA

This material does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Massachusetts Right to know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right to know Components

No components are subject to the Massachusetts Right to Know Act.

California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.

U.S. EPA Pesticide Regulation Number

Not applicable

Clean Water Act (CWA)

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

16. Other Information

NFPA	Health hazards 0	Flammability 0	Instability 0	Special 0	Hazard -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0		Personal protection -

Prepared by:	Guild BioSciences
Prepared on:	June 18, 2015
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Important Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in the document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Guild BioSciences shall not be held liable for any damage resulting from handling or from contact with the above product. See website for additional terms and conditions of sale.

END OF SAFETY DATA SHEET
