

SAFETY DATA SHEET

Oligonucleotide Library

Section 1. Identification

1.1 Product identifier

Product name : Oligonucleotide Library

Part no. : ☒ 4891A, G4892A, G4893A, G4894A, G4895A, G4896A, G7220A, G7221A, G7222A, G7223A, G7224A, G7225A, G7226A, G7227A, G7238A, G7239A, G7261A, G7262A, G7263A, G7264A, G7265A, G7266A, G7267A, G7268A, G7269A, G7270A, G7271A, G7272A, G7273A, G7274A, G7275A, G7276A, G7277A, G7278A, G7279A, G7280A, G7628A, G7629A, G7630A, G7631A, G7632A, G7633A, G7634A, G7635A, G7636A, G7637A, G7638A, G7639A, G7640A, G7641A, G7642A, G7643A, G7644A, G7645A, G7646A, G7647A, G7648A, G7649A, G7650A, G7651A, G7652A, G7653A, G7654A, G7655A, G7656A, G7657A, G7658A, G7659A, G7660A, G7661A, G7662A, G7663A, G7664A, G7665A, G7666A, G7667A, G7668A, G7669A, G7670A, G7671A, G7228A, G7229A, G7230A, G7231A, G7232A, G7233A, G7234A, G7235A, G7236A, G7237A, G7281A, G7282A, G7283A, G7284A, G7285A, G7286A, G7287A, G7288A, G7289A, G7290A, G7291A, G7292A, G7293A, G7294A

Validation date : 10/31/2023

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

Identified uses : ☒ Analytical reagent.
 1 x 1.5 ml Tube Analytical Standard

G4891A	Oligo Library 6.5K 10pmol
G4892A	Oligo Library 13K 10pmol
G4893A	Oligo Library 27K 10pmol
G4894A	Oligo Library 55K 10pmol
G4895A	Oligo Library 120K 10pmol
G4896A	Oligo Library 244K 10pmol
G7220A	Oligonucleotide Library 7.5K-NonProfit
G7221A	Oligonucleotide Library 15K-NonProfit
G7222A	Oligonucleotide Library 100K-NonProfit
G7223A	Oligonucleotide Library 244K-NonProfit
G7224A	Oligonucleotide Library 7.5K
G7225A	Oligonucleotide Library 15K
G7226A	Oligonucleotide Library 100K
G7227A	Oligonucleotide Library 244K
G7238A	Oligonucleotide Library 60K-NonProfit
G7239A	Oligonucleotide Library 60K
G7261A	HiFi Oligo Library 7.5K, 30-110nt
G7262A	HiFi Oligo Library 7.5K, 111-170nt
G7263A	HiFi Oligo Library 7.5K, 171-210nt
G7264A	HiFi Oligo Library 7.5K, 211-230nt
G7265A	HiFi Oligo Library 15K, 30-110nt
G7266A	HiFi Oligo Library 15K, 111-170nt
G7267A	HiFi Oligo Library 15K, 171-210nt
G7268A	HiFi Oligo Library 15K, 211-230nt
G7269A	HiFi Oligo Library 60K, 30-110nt
G7270A	HiFi Oligo Library 60K, 111-170nt
G7271A	HiFi Oligo Library 60K, 171-210nt
G7272A	HiFi Oligo Library 60K, 211-230nt
G7273A	HiFi Oligo Library 100K, 30-110nt
G7274A	HiFi Oligo Library 100K, 111-170nt
G7275A	HiFi Oligo Library 100K, 171-210nt
G7276A	HiFi Oligo Library 100K, 211-230nt
G7277A	HiFi Oligo Library 244K, 30-110nt
G7278A	HiFi Oligo Library 244K, 111-170nt
G7279A	HiFi Oligo Library 244K, 171-210nt
G7280A	HiFi Oligo Library 244K, 211-230nt

Section 1. Identification

G7628A	Standard Oligo Library 2.5K, 30-110nt
G7629A	Standard Oligo Library 2.5K, 111-170nt
G7630A	Standard Oligo Library 2.5K, 171-210nt
G7631A	Standard Oligo Library 2.5K, 211-230nt
G7632A	Standard Oligo Library 5K, 30-110nt
G7633A	Standard Oligo Library 5K, 111-170nt
G7634A	Standard Oligo Library 5K, 171-210nt
G7635A	Standard Oligo Library 5K, 211-230nt
G7636A	Standard Oligo Library 7.5K, 30-110nt
G7637A	Standard Oligo Library 7.5K, 111-170nt
G7638A	Standard Oligo Library 7.5K, 171-210nt
G7639A	Standard Oligo Library 7.5K, 211-230nt
G7640A	Standard Oligo Library 15K, 30-110nt
G7641A	Standard Oligo Library 15K, 111-170nt
G7642A	Standard Oligo Library 15K, 171-210nt
G7643A	Standard Oligo Library 15K, 211-230nt
G7644A	Standard Oligo Library 35K, 30-110nt
G7645A	Standard Oligo Library 35K, 111-170nt
G7646A	Standard Oligo Library 35K, 171-210nt
G7647A	Standard Oligo Library 35K, 211-230nt
G7648A	Standard Oligo Library 60K, 30-110nt
G7649A	Standard Oligo Library 60K, 111-170nt
G7650A	Standard Oligo Library 60K, 171-210nt
G7651A	Standard Oligo Library 60K, 211-230nt
G7652A	Standard Oligo Library 80K, 30-110nt
G7653A	Standard Oligo Library 80K, 111-170nt
G7654A	Standard Oligo Library 80K, 171-210nt
G7655A	Standard Oligo Library 80K, 211-230nt
G7656A	Standard Oligo Library 100K, 30-110nt
G7657A	Standard Oligo Library 100K, 111-170nt
G7658A	Standard Oligo Library 100K, 171-210nt
G7659A	Standard Oligo Library 100K, 211-230nt
G7660A	Standard Oligo Library 150K, 30-110nt
G7661A	Standard Oligo Library 150K, 111-170nt
G7662A	Standard Oligo Library 150K, 171-210nt
G7663A	Standard Oligo Library 150K, 211-230nt
G7664A	Standard Oligo Library 200K, 30-110nt
G7665A	Standard Oligo Library 200K, 111-170nt
G7666A	Standard Oligo Library 200K, 171-210nt
G7667A	Standard Oligo Library 200K, 211-230nt
G7668A	Standard Oligo Library 244K, 30-110nt
G7669A	Standard Oligo Library 244K, 111-170nt
G7670A	Standard Oligo Library 244K, 171-210nt
G7671A	Standard Oligo Library 244K, 211-230nt
G7228A	HiFi Oligo Library 2.5K, 30-110nt
G7229A	HiFi Oligo Library 2.5K, 111-170nt
G7230A	HiFi Oligo Library 2.5K, 171-210nt
G7231A	HiFi Oligo Library 2.5K, 211-230nt
G7232A	HiFi Oligo Library 5K, 30-110nt
G7233A	HiFi Oligo Library 5K, 111-170nt
G7234A	HiFi Oligo Library 5K, 171-210nt
G7235A	HiFi Oligo Library 5K, 211-230nt
G7236A	HiFi Oligo Library 35K, 30-110nt
G7237A	HiFi Oligo Library 35K, 111-170nt
G7281A	HiFi Oligo Library 35K, 171-210nt
G7282A	HiFi Oligo Library 35K, 211-230nt
G7283A	HiFi Oligo Library 80K, 30-110nt
G7284A	HiFi Oligo Library 80K, 111-170nt
G7285A	HiFi Oligo Library 80K, 171-210nt
G7286A	HiFi Oligo Library 80K, 211-230nt

Section 1. Identification

G7287A	HiFi Oligo Library 150K, 30-110nt
G7288A	HiFi Oligo Library 150K, 111-170nt
G7289A	HiFi Oligo Library 150K, 171-210nt
G7290A	HiFi Oligo Library 150K, 211-230nt
G7291A	HiFi Oligo Library 200K, 30-110nt
G7292A	HiFi Oligo Library 200K, 111-170nt
G7293A	HiFi Oligo Library 200K, 171-210nt
G7294A	HiFi Oligo Library 200K, 211-230nt

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : 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. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5%

2.2 GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

2.3 Other hazards

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Section 4. First aid measures

4.1 Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides

Section 5. Fire-fighting measures

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- 7.2 Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- Recommendations** : Industrial applications, Professional applications.
- Industrial sector specific solutions** : Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state

: Solid.

Color

: Not available.

Odor

: Not available.

Odor threshold

: Not available.

pH

: Not available.

Section 9. Physical and chemical properties and safety characteristics

Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability : Not applicable.

Lower and upper explosion limit/flammability limit : Not available.

Vapor pressure : Not available.

Relative vapor density : Not available.

Relative density : Not available.

Solubility(ies) :	Media	Result
	Water	Insoluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Section 11. Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 11. Toxicological information

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

[15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture](#)

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 : Not listed
(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed
Class I Substances

Clean Air Act Section 602 : Not listed
Class II Substances

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Not listed
(Essential Chemicals)

[SARA 302/304](#)

[Composition/information on ingredients](#)

No products were found.

SARA 304 RQ : Not applicable.

[SARA 311/312](#)

Classification : Not applicable.

[Composition/information on ingredients](#)

No products were found.

[State regulations](#)

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

[California Prop. 65](#)

This product does not require a Safe Harbor warning under California Prop. 65.

[International regulations](#)

[Chemical Weapon Convention List Schedules I, II & III Chemicals](#)

Not listed.

[Montreal Protocol](#)

Not listed.

[Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

[Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

[UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

[Inventory list](#)

Australia : Not determined.

Canada : Not determined.

Section 15. Regulatory information

China	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of issue/Date of revision	: 10/31/2023
Date of previous issue	: 01/31/2022
Version	: 8

Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations
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Indicates information that has changed from previously issued version.

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