

SAFETY DATA SHEET



pMC1neo and pMC1neo Poly(A) Vectors, Part Number 213201

Section 1. Identification

1.1 Product identifier

Product name : pMC1neo and pMC1neo Poly(A) Vectors, Part Number 213201
Part no. (chemical kit) : 213201
Part no. : pMC1neo Vector 213201-51
 pMC1neo Poly A 213201-52
 AG1 E. coli Strain 200274-81
Validation date : 9/30/2021

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

Material uses : Analytical reagent.
 pMC1neo Vector 25 µl (25 µg 1 µg/µl)
 pMC1neo Poly A 25 µl (25 µg 1 µg/µl)
 AG1 E. coli Strain 500 µl

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 : pMC1neo Vector 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.
 pMC1neo Poly A 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.
 AG1 E. coli Strain This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

AG1 E. coli Strain
 H319 EYE IRRITATION - Category 2A

2.2 GHS label elements

Hazard pictograms : AG1 E. coli Strain



Section 2. Hazards identification

Signal word	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No signal word. No signal word. Warning
Hazard statements	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. H319 - Causes serious eye irritation.
<u>Precautionary statements</u>		
Prevention	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. P280 - Wear eye or face protection.
Response	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. Not applicable.
Disposal	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	None known. None known. None known.
<u>2.3 Other hazards</u>		
Hazards not otherwise classified	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	None known. None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Mixture Mixture Mixture
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Ingredient name	%	CAS number
AG1 E. coli Strain		
Glycerol	≥10 - ≤25	56-81-5
Sodium chloride	≤3	7647-14-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: pMC1neo Vector	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.
	pMC1neo Poly A	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.
	AG1 E. coli Strain	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: pMC1neo Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pMC1neo Poly A	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	AG1 E. coli Strain	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: pMC1neo Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pMC1neo Poly A	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	AG1 E. coli Strain	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: pMC1neo Vector	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.
	pMC1neo Poly A	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.
	AG1 E. coli Strain	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels

Section 4. First aid measures

sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.
Skin contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.
Ingestion	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.

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

Notes to physician	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific treatment. No specific treatment. No specific treatment.

Section 4. First aid measures

Protection of first-aiders	: pMC1neo Vector	No action shall be taken involving any personal risk or without suitable training.
	pMC1neo Poly A	No action shall be taken involving any personal risk or without suitable training.
	AG1 E. coli Strain	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: pMC1neo Vector	Use an extinguishing agent suitable for the surrounding fire.
	pMC1neo Poly A	Use an extinguishing agent suitable for the surrounding fire.
	AG1 E. coli Strain	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: pMC1neo Vector	None known.
	pMC1neo Poly A	None known.
	AG1 E. coli Strain	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: pMC1neo Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
	pMC1neo Poly A	In a fire or if heated, a pressure increase will occur and the container may burst.
	AG1 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: pMC1neo Vector	No specific data.
	pMC1neo Poly A	No specific data.
	AG1 E. coli Strain	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters	: pMC1neo Vector	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.
	pMC1neo Poly A	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.
	AG1 E. coli Strain	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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: pMC1neo Vector	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	pMC1neo Poly A	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	AG1 E. coli Strain	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	: pMC1neo Vector	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.
	pMC1neo Poly A	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.
	AG1 E. coli Strain	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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: pMC1neo Vector	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".
	pMC1neo Poly A	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".
	AG1 E. coli Strain	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

: pMC1neo Vector	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).
	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,
pMC1neo Poly A	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,

Section 6. Accidental release measures

AG1 E. coli Strain

waterways, soil or air).

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 : pMC1neo Vector

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.

pMC1neo Poly A

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.

AG1 E. coli Strain

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 : pMC1neo Vector

Put on appropriate personal protective equipment (see Section 8).

pMC1neo Poly A

Put on appropriate personal protective equipment (see Section 8).

AG1 E. coli Strain

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : pMC1neo Vector

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. 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. Potentially biohazardous material. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

pMC1neo Poly A

AG1 E. coli Strain

Section 7. Handling and storage

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

: pMC1neo Vector

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.

pMC1neo Poly A

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.

AG1 E. coli Strain

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

: pMC1neo Vector
pMC1neo Poly A
AG1 E. coli Strain

Industrial applications, Professional applications.
Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: pMC1neo Vector
pMC1neo Poly A
AG1 E. coli Strain

Not available.
Not available.
Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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	pMC1neo Vector	Liquid.
	pMC1neo Poly A	Liquid.
	AG1 E. coli Strain	Liquid.
Color	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.
Odor	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.
Odor threshold	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.
pH	pMC1neo Vector	7.5
	pMC1neo Poly A	7.5
	AG1 E. coli Strain	7.5
Melting point/freezing point	pMC1neo Vector	0°C (32°F)
	pMC1neo Poly A	0°C (32°F)
	AG1 E. coli Strain	Not available.
Boiling point, initial boiling point, and boiling range	pMC1neo Vector	100°C (212°F)
	pMC1neo Poly A	100°C (212°F)
	AG1 E. coli Strain	Not available.

Flash point

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
pMC1neo Vector						
Edetic acid	>100	>212	DIN 51758			
pMC1neo Poly A						
Edetic acid	>100	>212	DIN 51758			
AG1 E. coli Strain						
Glycerol			Pensky-Martens	177	350.6	

Evaporation rate	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.

Flammability	pMC1neo Vector	Not applicable.
	pMC1neo Poly A	Not applicable.
	AG1 E. coli Strain	Not applicable.

Lower and upper explosion limit/flammability limit	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.

Vapor pressure

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

Section 9. Physical and chemical properties and safety characteristics

pMC1neo Vector					
Water	23.8	3.2			
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
pMC1neo Poly A					
Water	23.8	3.2			
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	0	0		0.000007501	0.000001
AG1 E. coli Strain					
Water	23.8	3.2			
Glycerol	0	0		0	0

- Relative vapor density** : pMC1neo Vector Not available.
 pMC1neo Poly A Not available.
 AG1 E. coli Strain Not available.
- Relative density** : pMC1neo Vector Not available.
 pMC1neo Poly A Not available.
 AG1 E. coli Strain Not available.
- Solubility** : pMC1neo Vector Easily soluble in the following materials: cold water and hot water.
 pMC1neo Poly A Easily soluble in the following materials: cold water and hot water.
 AG1 E. coli Strain Soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : pMC1neo Vector Not applicable.
 pMC1neo Poly A Not applicable.
 AG1 E. coli Strain Not applicable.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
pMC1neo Vector			
Edetic acid	>400	>752	VDI 2263
pMC1neo Poly A			
Edetic acid	>400	>752	VDI 2263
AG1 E. coli Strain			
Glycerol	370	698	

- Decomposition temperature** : pMC1neo Vector Not available.
 pMC1neo Poly A Not available.
 AG1 E. coli Strain Not available.
- Viscosity** : pMC1neo Vector Not available.
 pMC1neo Poly A Not available.
 AG1 E. coli Strain Not available.
- Particle characteristics**
- Median particle size** : pMC1neo Vector Not applicable.
 pMC1neo Poly A Not applicable.
 AG1 E. coli Strain Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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

Product/ingredient name	Result	Species	Dose	Exposure
AG1 E. coli Strain				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
AG1 E. coli Strain Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	10 mg 24 hours 500 mg	- -

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

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 : pMC1neo Vector
pMC1neo Poly A
AG1 E. coli Strain

Not available.
Not available.
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.
Skin contact	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. No specific data.
Ingestion	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. 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	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AG1 E. coli Strain					
AG1 E. coli Strain	300000	N/A	N/A	N/A	N/A
Glycerol	12600	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A

Section 11. Toxicological information

Other information	: pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
AG1 E. coli Strain Glycerol Sodium chloride	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AG1 E. coli Strain Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
AG1 E. coli Strain Glycerol	-1.76	-	low

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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

Section 13. Disposal considerations

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 Water Act (CWA) 311: Edetic acid

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : pMC1neo Vector
pMC1neo Poly A
AG1 E. coli Strain
Not applicable.
Not applicable.
EYE IRRITATION - Category 2A

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
AG1 E. coli Strain		
Glycerol	≥10 - ≤25	EYE IRRITATION - Category 2B
Sodium chloride	≤3	EYE IRRITATION - Category 2A

State regulations

- Massachusetts** : The following components are listed: GLYCERINE MIST
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- 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** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (CSCL)**: All components are listed or exempted.
Japan inventory (ISHL): All components are listed or exempted.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : All components are listed or exempted.

Section 16. Other information

[Procedure used to derive the classification](#)

Classification	Justification
AG1 E. coli Strain EYE IRRITATION - Category 2A	Calculation method

[History](#)

Date of issue	: 09/30/2021
Date of previous issue	: 05/23/2019
Version	: 4
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

📌 Indicates information that has changed from previously issued version.

[Notice to reader](#)

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