SAFETY DATA SHEET

Agilent Technologies

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

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : pMC1neo and pMC1neo Poly(A) Vectors, Part Number 213201

Part No. (Kit) : 213201

Part No. :

pMC1neo Vector	213201-51
pMC1neo Poly A	213201-52
AG1 E. coli Strain	200274-81

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

Identified 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

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition :

pMC1neo Vector	Mixture
pMC1neo Poly A	Mixture
AG1 E. coli Strain	Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word :

pMC1neo Vector	No signal word.
pMC1neo Poly A	No signal word.
AG1 E. coli Strain	No signal word.

Hazard statements :

pMC1neo Vector	No known significant effects or critical hazards.
pMC1neo Poly A	No known significant effects or critical hazards.
AG1 E. coli Strain	No known significant effects or critical hazards.

Precautionary statements

SECTION 2: Hazards identification

Prevention	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.
Response	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.
Storage	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.
Disposal	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.
Hazardous ingredients	:	AG1 E. coli Strain	Not applicable.
Supplemental label elements	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.

Special packaging requirements

Tactile warning of danger	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	:	pMC1neo Vector	None known.
		pMC1neo Poly A	None known.
		AG1 E. coli Strain	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	pMC1neo Vector	Mixture
		pMC1neo Poly A	Mixture
		AG1 E. coli Strain	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
AG1 E. coli Strain				
Glycerol	EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[2]
Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the H statements declared above.	

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.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of 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. Get medical attention if irritation occurs.
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. Get medical attention if symptoms occur.
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.
Ingestion	:	pMC1neo Vector	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 victim to fresh air and keep at rest in a position comfortable for breathing. 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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Inhalation	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.

SECTION 4: First aid measures

Skin contact	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Ingestion	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Inhalation	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Skin contact	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Ingestion	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting 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

Hazards from the substance or mixture	:	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 combustion 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

SECTION 5: Firefighting measures

Special precautions 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.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spilt 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 spilt 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders :	pMC1neo Vector	If specialised 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 specialised 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 specialised 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".

SECTION 6: Accidental release measures

6.2 Environmental precautions

pMC1neo Vector	Avoid dispersal of spilt 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).
pMC1neo Poly A	Avoid dispersal of spilt 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).
AG1 E. coli Strain	Avoid dispersal of spilt 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 material 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.

6.4 Reference to other sections

: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

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).

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.
pMC1neo Poly A	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.
AG1 E. coli Strain	Potentially biohazardous material. 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.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Storage :

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
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 unlabelled containers. Use appropriate containment to avoid environmental contamination.
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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations :

pMC1neo Vector	Industrial applications, Professional applications.
pMC1neo Poly A	Industrial applications, Professional applications.
AG1 E. coli Strain	Industrial applications, Professional applications.

Industrial sector specific solutions :

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
AG1 E. coli Strain Glycerol	**EH40/2005 WELs (United Kingdom (UK), 12/2011).** TWA: 10 mg/m³ 8 hours. Form: Mist

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

Hygiene measures : Handle as biohazard material (Biosafety level 1). 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.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state :	pMC1neo Vector	Liquid.
	pMC1neo Poly A	Liquid.
	AG1 E. coli Strain	Liquid.
Colour :	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.
Odour :	pMC1neo Vector	Not available.
	pMC1neo Poly A	Not available.
	AG1 E. coli Strain	Not available.
Odour 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

SECTION 9: Physical and chemical properties

Melting point/freezing point	:	pMC1neo Vector	0°C
		pMC1neo Poly A	0°C
		AG1 E. coli Strain	Not available.
Initial boiling point and boiling range	:	pMC1neo Vector	100°C
		pMC1neo Poly A	100°C
		AG1 E. coli Strain	Not available.
Flash point	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Evaporation rate	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Flammability (solid, gas)	:	pMC1neo Vector	Not applicable.
		pMC1neo Poly A	Not applicable.
		AG1 E. coli Strain	Not applicable.
Upper/lower flammability or explosive limits	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Vapour pressure	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Vapour 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(ies)	:	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 available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Auto-ignition temperature	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
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.
Explosive properties	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.
Oxidising properties	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : pMC1neo Vector — No specific test data related to reactivity available for this product or its ingredients.
pMC1neo Poly A — No specific test data related to reactivity available for this product or its ingredients.
AG1 E. coli Strain — No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : pMC1neo Vector — The product is stable.
pMC1neo Poly A — The product is stable.
AG1 E. coli Strain — The product is stable.

10.3 Possibility of hazardous reactions : pMC1neo Vector — Under normal conditions of storage and use, hazardous reactions will not occur.
pMC1neo Poly A — Under normal conditions of storage and use, hazardous reactions will not occur.
AG1 E. coli Strain — Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : pMC1neo Vector — No specific data.
pMC1neo Poly A — No specific data.
AG1 E. coli Strain — No specific data.

10.5 Incompatible materials : pMC1neo Vector — May react or be incompatible with oxidising materials.
pMC1neo Poly A — May react or be incompatible with oxidising materials.
AG1 E. coli Strain — May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : pMC1neo Vector — Under normal conditions of storage and use, hazardous decomposition products should not be produced.
pMC1neo Poly A — Under normal conditions of storage and use, hazardous decomposition products should not be produced.
AG1 E. coli Strain — 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				
Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

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

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	pMC1neo Vector	Not available.
		pMC1neo Poly A	Not available.
		AG1 E. coli Strain	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Ingestion	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Skin contact	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.
Eye contact	:	pMC1neo Vector	No specific data.
		pMC1neo Poly A	No specific data.
		AG1 E. coli Strain	No specific data.

Delayed and immediate effects as well as 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	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Carcinogenicity	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Mutagenicity	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Teratogenicity	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Developmental effects	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
Fertility effects	:	pMC1neo Vector	No known significant effects or critical hazards.
		pMC1neo Poly A	No known significant effects or critical hazards.
		AG1 E. coli Strain	No known significant effects or critical hazards.
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			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm3 Fresh water	Algae - Pseudokirchneriella subcapitata	72 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 1.56 g/L Fresh water	Daphnia - Daphnia magna	48 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

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

SECTION 13: Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles :

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

Other EU regulations

Europe inventory : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

SECTION 15: Regulatory information

Montreal Protocol (Annexes A, B, C, E)

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.

International lists

National inventory

Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Japan	:	**Japan inventory (ENCS)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
Malaysia	:	Not determined.
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.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

AG1 E. coli Strain H319	Causes serious eye irritation.

Full text of classifications [CLP/GHS]

AG1 E. coli Strain Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Date of issue/ Date of revision : 29/03/2017

Date of previous issue : No previous validation.

Version : 1

Notice to reader

SECTION 16: Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.