

SECTION 2: Hazards identification

Precautionary statements

Prevention	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. Not applicable.
Response	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. Not applicable.
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.
Hazardous ingredients	: AG1 E. coli Strain	Not applicable.
Supplemental label elements	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. 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 pMC1neo Poly A AG1 E. coli Strain	Not applicable. Not applicable. Not applicable.

Special packaging requirements

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

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	None known. None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	Mixture Mixture Mixture
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Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
AG1 E. coli Strain	REACH #: Annex V	≥10 - ≤25	Not classified.	[2]
Glycerol	EC: 200-289-5			
Sodium chloride	CAS: 56-81-5 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.				

SECTION 3: Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance 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
- [6] Additional disclosure due to company policy

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. 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. 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.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both 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. No known significant effects or critical hazards.
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. No specific data.
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 any immediate medical attention and special treatment needed

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 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
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SECTION 5: Firefighting measures

Hazardous combustion products	: pMC1neo Vector pMC1neo Poly A AG1 E. coli Strain	No specific data. No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
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5.3 Advice for firefighters

Special precautions for fire-fighters	: pMC1neo Vector pMC1neo Poly A 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. 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. 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 pMC1neo Poly A 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. 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. 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 pMC1neo Poly A 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. 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. 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 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". 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

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".

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

SECTION 7: Handling and storage

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

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. 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 unlabelled 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 unlabelled 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

Product/ingredient name	Exposure limit values
AG1 E. coli Strain Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
AG1 E. coli Strain Sodium chloride	DNEL	Short term Oral	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	126.65 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	295.52 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	295.52 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	443.28 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	443.28 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	2068.62 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2068.62 mg/m ³	Workers	Systemic

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.

SECTION 8: Exposure controls/personal protection

- 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

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

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.
- 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 (212°F)
pMC1neo Poly A 100°C (212°F)
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.

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	

Auto-ignition temperature

:

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

SECTION 9: Physical and chemical properties

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.
- pH** : pMC1neo Vector 7.5
pMC1neo Poly A 7.5
AG1 E. coli Strain 7.5
- Viscosity** : 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 applicable.
pMC1neo Poly A Not applicable.
AG1 E. coli Strain Not applicable.
- Vapour pressure** :

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

- Evaporation rate** : 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.
- Vapour density** : pMC1neo Vector Not available.
pMC1neo Poly A Not available.
AG1 E. coli Strain Not available.

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

SECTION 9: Physical and chemical properties

Oxidising properties : 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.

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

SECTION 11: Toxicological information

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

Irritation/Corrosion

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

Sensitiser

Conclusion/Summary : 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 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.

SECTION 11: Toxicological information

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

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
AG1 E. coli Strain Sodium chloride	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

SECTION 12: Ecological information

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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

SECTION 14: Transport information

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 IMO instruments : 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

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

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

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.

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.

SECTION 15: Regulatory information

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	: <input checked="" type="checkbox"/> All components are active or exempted.
Viet Nam	: <input checked="" type="checkbox"/> 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] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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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.
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Full text of classifications [CLP/GHS]

<input checked="" type="checkbox"/> AG1 E. coli Strain Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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Notice to reader

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