SAFETY DATA SHEET

Agilent Technologies

AAV Helper-Free System

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

1.1 Product identifier

Product name : AAV Helper-Free System

Part no. (chemical kit) : 240071

Part no. :

AAV-293 Cell Line >1 x 10e6 Viable Cells	240073-41
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	240109-41
pAAV-MCS Vector	240071-55
pCMV-MCS Vector	240071-51
pAAV-LacZ Vector	240071-52
pAAV-RC Plasmid	240071-53
pHelper Vector	240071-54

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

Identified uses : Analytical reagent.

AAV-293 Cell Line >1 x 10e6 Viable Cells	1 ml
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	1 ml
pAAV-MCS Vector	0.01 ml (10 µg 1 µg/µl)
pCMV-MCS Vector	0.01 ml (10 µg 1 µg/µl)
pAAV-LacZ Vector	0.01 ml (10 µg 1 µg/µl)
pAAV-RC Plasmid	0.02 ml (20 µg 1 µg/µl)
pHelper Vector	0.02 ml (20 µg 1 µg/µl)

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
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 :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Mixture
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Mixture
pAAV-MCS Vector	Mixture
pCMV-MCS Vector	Mixture
pAAV-LacZ Vector	Mixture
pAAV-RC Plasmid	Mixture
pHelper Vector	Mixture

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

Not classified.

SECTION 2: Hazards identification

AAV-293 Cell Line >1 x 10e6 Viable Cells	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
pAAV-MCS Vector	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
pCMV-MCS Vector	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
pAAV-LacZ Vector	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
pAAV-RC Plasmid	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
pHelper Vector	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

AAV-293 Cell Line >1 x 10e6 Viable Cells	No signal word.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No signal word.
pAAV-MCS Vector	No signal word.
pCMV-MCS Vector	No signal word.
pAAV-LacZ Vector	No signal word.
pAAV-RC Plasmid	No signal word.
pHelper Vector	No signal word.

Hazard statements

AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
pAAV-MCS Vector	No known significant effects or critical hazards.
pCMV-MCS Vector	No known significant effects or critical hazards.
pAAV-LacZ Vector	No known significant effects or critical hazards.
pAAV-RC Plasmid	No known significant effects or critical hazards.
pHelper Vector	No known significant effects or critical hazards.

Precautionary statements

Prevention

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
pAAV-MCS Vector	Not applicable.
pCMV-MCS Vector	Not applicable.
pAAV-LacZ Vector	Not applicable.
pAAV-RC Plasmid	Not applicable.
pHelper Vector	Not applicable.

Response

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
pAAV-MCS Vector	Not applicable.
pCMV-MCS Vector	Not applicable.
pAAV-LacZ Vector	Not applicable.
pAAV-RC Plasmid	Not applicable.
pHelper Vector	Not applicable.

SECTION 2: Hazards identification

Storage	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.
Disposal	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.
Supplemental label elements	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.

Special packaging requirements

Tactile warning of danger	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		pAAV-MCS Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		pCMV-MCS Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		pAAV-LacZ Vector	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		pAAV-RC Plasmid	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		pHelper Vector	This mixture does not contain any substances that are

SECTION 2: Hazards identification

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification :

AAV-293 Cell Line >1 x 10e6 Viable Cells	None known.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	None known.
pAAV-MCS Vector	None known.
pCMV-MCS Vector	None known.
pAAV-LacZ Vector	None known.
pAAV-RC Plasmid	None known.
pHelper Vector	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Mixture
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Mixture
pAAV-MCS Vector	Mixture
pCMV-MCS Vector	Mixture
pAAV-LacZ Vector	Mixture
pAAV-RC Plasmid	Mixture
pHelper Vector	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact :

AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
pAAV-MCS 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.
pCMV-MCS 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.
pAAV-LacZ 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.
pAAV-RC Plasmid	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.
pHelper 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.

Inhalation :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
pAAV-MCS Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

SECTION 4: First aid measures

			symptoms occur.
		pCMV-MCS Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pAAV-LacZ Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pAAV-RC Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		pHelper Vector	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pAAV-MCS Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pCMV-MCS Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pAAV-LacZ Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pAAV-RC Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
		pHelper Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
		pAAV-MCS 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.
		pCMV-MCS 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.
		pAAV-LacZ 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.
		pAAV-RC Plasmid	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

SECTION 4: First aid measures

		symptoms occur.
	pHelper 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.
Protection of first-aiders :	AAV-293 Cell Line >1 x 10e6 Viable Cells	No action shall be taken involving any personal risk or without suitable training.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No action shall be taken involving any personal risk or without suitable training.
	pAAV-MCS Vector	No action shall be taken involving any personal risk or without suitable training.
	pCMV-MCS Vector	No action shall be taken involving any personal risk or without suitable training.
	pAAV-LacZ Vector	No action shall be taken involving any personal risk or without suitable training.
	pAAV-RC Plasmid	No action shall be taken involving any personal risk or without suitable training.
	pHelper Vector	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 :	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	pAAV-MCS Vector	No known significant effects or critical hazards.
	pCMV-MCS Vector	No known significant effects or critical hazards.
	pAAV-LacZ Vector	No known significant effects or critical hazards.
	pAAV-RC Plasmid	No known significant effects or critical hazards.
	pHelper Vector	No known significant effects or critical hazards.
Inhalation :	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	pAAV-MCS Vector	No known significant effects or critical hazards.
	pCMV-MCS Vector	No known significant effects or critical hazards.
	pAAV-LacZ Vector	No known significant effects or critical hazards.
	pAAV-RC Plasmid	No known significant effects or critical hazards.
	pHelper Vector	No known significant effects or critical hazards.
Skin contact :	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	pAAV-MCS Vector	No known significant effects or critical hazards.
	pCMV-MCS Vector	No known significant effects or critical hazards.
	pAAV-LacZ Vector	No known significant effects or critical hazards.
	pAAV-RC Plasmid	No known significant effects or critical hazards.
	pHelper Vector	No known significant effects or critical hazards.
Ingestion :	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
	pAAV-MCS Vector	No known significant effects or critical hazards.
	pCMV-MCS Vector	No known significant effects or critical hazards.
	pAAV-LacZ Vector	No known significant effects or critical hazards.
	pAAV-RC Plasmid	No known significant effects or critical hazards.
	pHelper Vector	No known significant effects or critical hazards.

Over-exposure signs/symptoms

SECTION 4: First aid measures

Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Inhalation	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Skin contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Ingestion	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		pAAV-MCS Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pCMV-MCS Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pAAV-LacZ Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pAAV-RC Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		pHelper Vector	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific treatment.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific treatment.
		pAAV-MCS Vector	No specific treatment.
		pCMV-MCS Vector	No specific treatment.
		pAAV-LacZ Vector	No specific treatment.
		pAAV-RC Plasmid	No specific treatment.

SECTION 4: First aid measures

pHelper Vector	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

AAV-293 Cell Line >1 x 10e6 Viable Cells	Use an extinguishing agent suitable for the surrounding fire.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Use an extinguishing agent suitable for the surrounding fire.
pAAV-MCS Vector	Use an extinguishing agent suitable for the surrounding fire.
pCMV-MCS Vector	Use an extinguishing agent suitable for the surrounding fire.
pAAV-LacZ Vector	Use an extinguishing agent suitable for the surrounding fire.
pAAV-RC Plasmid	Use an extinguishing agent suitable for the surrounding fire.
pHelper Vector	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

AAV-293 Cell Line >1 x 10e6 Viable Cells	None known.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	None known.
pAAV-MCS Vector	None known.
pCMV-MCS Vector	None known.
pAAV-LacZ Vector	None known.
pAAV-RC Plasmid	None known.
pHelper Vector	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

AAV-293 Cell Line >1 x 10e6 Viable Cells	In a fire or if heated, a pressure increase will occur and the container may burst.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	In a fire or if heated, a pressure increase will occur and the container may burst.
pAAV-MCS Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pCMV-MCS Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pAAV-LacZ Vector	In a fire or if heated, a pressure increase will occur and the container may burst.
pAAV-RC Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.
pHelper Vector	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

AAV-293 Cell Line >1 x 10e6 Viable Cells	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides
pAAV-MCS Vector	No specific data.
pCMV-MCS Vector	No specific data.
pAAV-LacZ Vector	No specific data.
pAAV-RC Plasmid	No specific data.
pHelper Vector	No specific data.

5.3 Advice for firefighters

SECTION 5: Firefighting measures

Special precautions for fire-fighters	: AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
	pAAV-MCS 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.
	pCMV-MCS 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.
	pAAV-LacZ 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.
	pAAV-RC Plasmid	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.
	pHelper 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.
Special protective equipment for fire-fighters	: AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
	pAAV-MCS 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.
	pCMV-MCS 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.
	pAAV-LacZ 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.
	pAAV-RC Plasmid	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.
	pHelper 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
		pAAV-MCS 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.
		pCMV-MCS 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.
		pAAV-LacZ 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.
		pAAV-RC Plasmid	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.
		pHelper 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.
For emergency responders	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	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".
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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".
		pAAV-MCS 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".
		pCMV-MCS 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".
		pAAV-LacZ 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".
		pAAV-RC Plasmid	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".
		pHelper 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-

SECTION 6: Accidental release measures

emergency personnel".

6.2 Environmental precautions :

AAV-293 Cell Line >1 x 10e6 Viable Cells	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).
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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).
pAAV-MCS 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).
pCMV-MCS 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).
pAAV-LacZ 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).
pAAV-RC Plasmid	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).
pHelper 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up :

AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
pAAV-MCS 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.
pCMV-MCS 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.
pAAV-LacZ 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.
pAAV-RC Plasmid	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 6: Accidental release measures

pHelper 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.

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	: AAV-293 Cell Line >1 x 10e6 Viable Cells	Put on appropriate personal protective equipment (see Section 8).
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Put on appropriate personal protective equipment (see Section 8).
	pAAV-MCS Vector	Put on appropriate personal protective equipment (see Section 8).
	pCMV-MCS Vector	Put on appropriate personal protective equipment (see Section 8).
	pAAV-LacZ Vector	Put on appropriate personal protective equipment (see Section 8).
	pAAV-RC Plasmid	Put on appropriate personal protective equipment (see Section 8).
	pHelper Vector	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
	pAAV-MCS 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.
	pCMV-MCS 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.
	pAAV-LacZ 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.
	pAAV-RC Plasmid	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

pHelper 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.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: AAV-293 Cell Line >1 x 10e6 Viable Cells	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.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	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.
	pAAV-MCS 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.
	pCMV-MCS 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.
	pAAV-LacZ 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.
	pAAV-RC Plasmid	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

SECTION 7: Handling and storage

	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.
pHelper 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.

7.3 Specific end use(s)

Recommendations :	AAV-293 Cell Line >1 x 10e6 Viable Cells	Industrial applications, Professional applications.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Industrial applications, Professional applications.
	pAAV-MCS Vector	Industrial applications, Professional applications.
	pCMV-MCS Vector	Industrial applications, Professional applications.
	pAAV-LacZ Vector	Industrial applications, Professional applications.
	pAAV-RC Plasmid	Industrial applications, Professional applications.
	pHelper Vector	Industrial applications, Professional applications.
Industrial sector specific solutions :	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
	pAAV-MCS Vector	Not available.
	pCMV-MCS Vector	Not available.
	pAAV-LacZ Vector	Not available.
	pAAV-RC Plasmid	Not available.
	pHelper Vector	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : 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.

PNECs

No PNECs available

SECTION 8: Exposure controls/personal protection

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

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 :	AAV-293 Cell Line >1 x 10e6 Viable Cells	Liquid.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Liquid.
	pAAV-MCS Vector	Liquid.
	pCMV-MCS Vector	Liquid.
	pAAV-LacZ Vector	Liquid.
	pAAV-RC Plasmid	Liquid.
	pHelper Vector	Liquid.
Colour :	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
	pAAV-MCS Vector	Not available.
	pCMV-MCS Vector	Not available.
	pAAV-LacZ Vector	Not available.
	pAAV-RC Plasmid	Not available.
	pHelper Vector	Not available.

SECTION 9: Physical and chemical properties

Odour	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Odour threshold	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Melting point/freezing point	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	0°C
		pCMV-MCS Vector	0°C
		pAAV-LacZ Vector	0°C
		pAAV-RC Plasmid	0°C
		pHelper Vector	0°C
Initial boiling point and boiling range	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	100°C
		pCMV-MCS Vector	100°C
		pAAV-LacZ Vector	100°C
		pAAV-RC Plasmid	100°C
		pHelper Vector	100°C
Flammability	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.
Upper/lower flammability or explosive limits	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Flash point	:		

SECTION 9: Physical and chemical properties

Ingredient name	Closed cup °C	Closed cup Method	Open cup °C	Open cup Method
AAV-293 Cell Line >1 x 10e6 Viable Cells				
dimethyl sulfoxide	87	ASTM D 93	87	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells				
dimethyl sulfoxide	87	ASTM D 93	87	-

Auto-ignition temperature :

Ingredient name	°C	Method
AAV-293 Cell Line >1 x 10e6 Viable Cells		
dimethyl sulfoxide	300 to 302	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells		
dimethyl sulfoxide	300 to 302	-

Decomposition temperature :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
pAAV-MCS Vector	Not available.
pCMV-MCS Vector	Not available.
pAAV-LacZ Vector	Not available.
pAAV-RC Plasmid	Not available.
pHelper Vector	Not available.

pH :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
pAAV-MCS Vector	7.5
pCMV-MCS Vector	7.5
pAAV-LacZ Vector	7.5
pAAV-RC Plasmid	7.5
pHelper Vector	7.5

Viscosity :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
pAAV-MCS Vector	Not available.
pCMV-MCS Vector	Not available.
pAAV-LacZ Vector	Not available.
pAAV-RC Plasmid	Not available.
pHelper Vector	Not available.

Solubility(ies) :

Media	Result
AAV-293 Cell Line >1 x 10e6 Viable Cells	
water	Soluble
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	
water	Soluble
pAAV-MCS Vector	
water	Soluble
pCMV-MCS Vector	
water	Soluble
pAAV-LacZ Vector	
water	Soluble

SECTION 9: Physical and chemical properties

pAAV-RC Plasmid	
water	Soluble
pHelper Vector	
water	Soluble

Partition coefficient: n-octanol/water :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
pAAV-MCS Vector	Not applicable.
pCMV-MCS Vector	Not applicable.
pAAV-LacZ Vector	Not applicable.
pAAV-RC Plasmid	Not applicable.
pHelper Vector	Not applicable.

Vapour pressure :

Ingredient name	Vapour Pressure at 20˚C			Vapour pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
AAV-293 Cell Line >1 x 10e6 Viable Cells						
water	17.5	2.3	-	92.258	12.3	-
dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells						
water	17.5	2.3	-	92.258	12.3	-
dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-
pAAV-MCS Vector						
water	17.5	2.3	-	92.258	12.3	-
pCMV-MCS Vector						
water	17.5	2.3	-	92.258	12.3	-
pAAV-LacZ Vector						
water	17.5	2.3	-	92.258	12.3	-
pAAV-RC Plasmid						
water	17.5	2.3	-	92.258	12.3	-
pHelper Vector						
water	17.5	2.3	-	92.258	12.3	-

SECTION 9: Physical and chemical properties

Evaporation rate	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Relative density	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Vapour density	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Explosive properties	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.
Oxidising properties	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not available.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not available.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.

Particle characteristics

Median particle size	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific test data related to reactivity available for this product or its ingredients.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific test data related to reactivity available for this product or its ingredients.
		pAAV-MCS Vector	No specific test data related to reactivity available for this product or its ingredients.
		pCMV-MCS Vector	No specific test data related to reactivity available for this product or its ingredients.
		pAAV-LacZ Vector	No specific test data related to reactivity available for this product or its ingredients.
		pAAV-RC Plasmid	No specific test data related to reactivity available for this product or its ingredients.
		pHelper Vector	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	The product is stable.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	The product is stable.
		pAAV-MCS Vector	The product is stable.
		pCMV-MCS Vector	The product is stable.
		pAAV-LacZ Vector	The product is stable.
		pAAV-RC Plasmid	The product is stable.
		pHelper Vector	The product is stable.
10.3 Possibility of hazardous reactions	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Under normal conditions of storage and use, hazardous reactions will not occur.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Under normal conditions of storage and use, hazardous reactions will not occur.
		pAAV-MCS Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
		pCMV-MCS Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
		pAAV-LacZ Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
		pAAV-RC Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
		pHelper Vector	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
10.5 Incompatible materials	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	May react or be incompatible with oxidising materials.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	May react or be incompatible with oxidising materials.
		pAAV-MCS Vector	May react or be incompatible with oxidising materials.
		pCMV-MCS Vector	May react or be incompatible with oxidising materials.
		pAAV-LacZ Vector	May react or be incompatible with oxidising materials.
		pAAV-RC Plasmid	May react or be incompatible with oxidising materials.
		pHelper Vector	May react or be incompatible with oxidising materials.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pAAV-MCS Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pCMV-MCS Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pAAV-LacZ Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pAAV-RC Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		pHelper Vector	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

N/A

Irritation/Corrosion

Conclusion/Summary : Not available.

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	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
		pAAV-MCS Vector	Not available.
		pCMV-MCS Vector	Not available.
		pAAV-LacZ Vector	Not available.
		pAAV-RC Plasmid	Not available.
		pHelper Vector	Not available.

Potential acute health effects

SECTION 11: Toxicological information

Inhalation	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Ingestion	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Skin contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Ingestion	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Skin contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.

SECTION 11: Toxicological information

		pAAV-RC Plasmid	No specific data.
		pHelper Vector	No specific data.
Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No specific data.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No specific data.
		pAAV-MCS Vector	No specific data.
		pCMV-MCS Vector	No specific data.
		pAAV-LacZ Vector	No specific data.
		pAAV-RC Plasmid	No specific data.
		pHelper Vector	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

Conclusion/Summary : Not available.

General	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Carcinogenicity	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Mutagenicity	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.
		pHelper Vector	No known significant effects or critical hazards.
Reproductive toxicity	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No known significant effects or critical hazards.
		pAAV-MCS Vector	No known significant effects or critical hazards.
		pCMV-MCS Vector	No known significant effects or critical hazards.
		pAAV-LacZ Vector	No known significant effects or critical hazards.
		pAAV-RC Plasmid	No known significant effects or critical hazards.

SECTION 11: Toxicological information

pHelper Vector	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

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

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 Endocrine disrupting properties

Not available.

12.7 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 or ID 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

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

No listed substance

Label :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Not applicable.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Not applicable.
pAAV-MCS Vector	Not applicable.
pCMV-MCS Vector	Not applicable.
pAAV-LacZ Vector	Not applicable.
pAAV-RC Plasmid	Not applicable.
pHelper Vector	Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

SECTION 15: Regulatory information

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	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	**Russian Federation inventory**: Not determined.
Japan	:	**Japan inventory (CSCL)**: All components are listed or exempted. **Japan inventory (ISHL)**: All components are listed or exempted.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.

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

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

SECTION 16: Other information

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 26/06/2024

Date of previous issue : No previous validation

Version : 1

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