SAFETY DATA SHEET

Agilent Technologies

AAV Helper-Free System

Section 1. Identification

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

Validation date : 6/26/2024

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)

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :

AAV-293 Cell Line >1 x 10e6 Viable Cells	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
pAAV-MCS Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
pCMV-MCS Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
pAAV-LacZ Vector	While this material is not considered hazardous by the

Section 2. Hazards identification

	OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
pAAV-RC Plasmid	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
pHelper Vector	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

AAV-293 Cell Line >1 x 10e6 Viable Cells

H320 EYE IRRITATION - Category 2B

AAV-HT1080 Cell Line >1 x 10e6 Viable Cells

H320 EYE IRRITATION - Category 2B

2.2 GHS label elements

Signal word	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Warning
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Warning
		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	H320 - Causes eye irritation.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	H320 - Causes eye irritation.
		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.

Section 2. Hazards identification

Response	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		pAAV-MCS Vector	Not applicable.
		pCMV-MCS Vector	Not applicable.
		pAAV-LacZ Vector	Not applicable.
		pAAV-RC Plasmid	Not applicable.
		pHelper Vector	Not applicable.
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	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.

2.3 Other hazards

Hazards not otherwise classified	:	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

Substance/mixture : 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

Ingredient name	%	CAS number
AAV-293 Cell Line >1 x 10e6 Viable Cells		
Dimethyl sulfoxide	≥10 - ≤25	67-68-5
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells		
Dimethyl sulfoxide	≥10 - ≤25	67-68-5

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact :

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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

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. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

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.

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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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
		pAAV-MCS Vector	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Section 4. First aid measures

		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. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
		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,

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		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.
	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Causes eye irritation.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Causes eye irritation.
		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

Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Adverse symptoms may include the following: irritation watering redness
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Adverse symptoms may include the following: irritation

Section 4. First aid measures

			watering redness
		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 immediate medical attention and special treatment needed, if necessary

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

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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.
pHelper Vector	No specific treatment.

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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
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.

See toxicological information (Section 11)

Section 5. Fire-fighting 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.

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5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical :

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 thermal decomposition 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

Special protective actions 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

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		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.
	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.
	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.
	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.
	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.
	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.
	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.

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Put on

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		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 spilled 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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders :	AAV-293 Cell Line >1 x 10e6 Viable Cells	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pAAV-MCS Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCMV-MCS Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pAAV-LacZ Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pAAV-RC Plasmid	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pHelper Vector	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Section 6. Accidental release measures

6.2 Environmental precautions :

AAV-293 Cell Line >1 x 10e6 Viable Cells	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pAAV-MCS Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pCMV-MCS Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pAAV-LacZ Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pAAV-RC Plasmid	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
pHelper Vector	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials 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

Section 6. Accidental release measures

		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.
	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.

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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
		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

Section 7. Handling and storage

		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.
	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	: 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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid

Section 7. Handling and storage

	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 unlabeled 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 unlabeled 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 unlabeled 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 been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Section 7. Handling and storage

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

Ingredient name	Exposure limits
AAV-293 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide	**OARS WEEL (United States, 4/2022).** TWA: 250 ppm 8 hours.
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells Dimethyl sulfoxide	**OARS WEEL (United States, 4/2022).** TWA: 250 ppm 8 hours.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

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

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

Individual protection measures

Hygiene measures : 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

Section 8. Exposure controls/personal protection

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

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

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

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

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state :	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.
Color :	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.
Odor :	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.
Odor 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.
pH :		

Section 9. Physical and chemical properties and safety characteristics

	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

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 (32°F)
pCMV-MCS Vector	0°C (32°F)
pAAV-LacZ Vector	0°C (32°F)
pAAV-RC Plasmid	0°C (32°F)
pHelper Vector	0°C (32°F)

Boiling point, 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 (212°F)
pCMV-MCS Vector	100°C (212°F)
pAAV-LacZ Vector	100°C (212°F)
pAAV-RC Plasmid	100°C (212°F)
pHelper Vector	100°C (212°F)

Flash point :

	Closed cup			Open cup		
Ingredient name	**°C**	**°F**	**Method**	**°C**	**°F**	**Method**
AAV-293 Cell Line >1 x 10e6 Viable Cells						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells						
Dimethyl sulfoxide	87	188.6	ASTM D 93	87	188.6	-

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.

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.

Section 9. Physical and chemical properties and safety characteristics

	pHelper Vector	Not applicable.
Lower and upper explosion limit/flammability limit :	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.

Vapor pressure :

Ingredient name	Vapor Pressure at 20˚C			Vapor 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 and safety characteristics

Relative vapor 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.

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.

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
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.

Auto-ignition temperature :

Ingredient name	°C	°F	Method
AAV-293 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	300 to 302	572 to 575.6	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	300 to 302	572 to 575.6	-

Section 9. Physical and chemical properties and safety characteristics

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.
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.

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.

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.

Section 10. Stability and reactivity

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 oxidizing materials.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	May react or be incompatible with oxidizing materials.
		pAAV-MCS Vector	May react or be incompatible with oxidizing materials.
		pCMV-MCS Vector	May react or be incompatible with oxidizing materials.
		pAAV-LacZ Vector	May react or be incompatible with oxidizing materials.
		pAAV-RC Plasmid	May react or be incompatible with oxidizing materials.
		pHelper Vector	May react or be incompatible with oxidizing materials.
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,

Section 10. Stability and reactivity

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
AAV-293 Cell Line >1 x 10e6 Viable Cells				
Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells				
Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AAV-293 Cell Line >1 x 10e6 Viable Cells					
Dimethyl sulfoxide	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit	- - - -	100 mg 24 hours 500 mg 100 mg 24 hours 500 mg	- - - -
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells					
Dimethyl sulfoxide	Eyes - Mild irritant Eyes - Mild irritant Skin - Mild irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit	- - - -	100 mg 24 hours 500 mg 100 mg 24 hours 500 mg	- - - -

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the 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

Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Causes eye irritation.
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Causes eye irritation.
		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.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	AAV-293 Cell Line >1 x 10e6 Viable Cells	Adverse symptoms may include the following: irritation watering redness
		AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	Adverse symptoms may include the following:

Section 11. Toxicological information

			irritation watering redness
		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.

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	:	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.

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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.
		pHelper Vector	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
AAV-293 Cell Line >1 x 10e6 Viable Cells					
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells					
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
AAV-293 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - *Ulva lactuca*	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)	21 days

Section 12. Ecological information

AAV-HT1080 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - *Ulva lactuca*	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)	21 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AAV-293 Cell Line >1 x 10e6 Viable Cells				
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells				
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
AAV-293 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	-	-	Not readily
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
AAV-293 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	-1.35	3.16	Low
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells			
Dimethyl sulfoxide	-1.35	3.16	Low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 4(a) proposed test rules**: Glycine

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: Edetic acid; Iron trinitrate

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification :

AAV-293 Cell Line >1 x 10e6 Viable Cells	EYE IRRITATION - Category 2B
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells	EYE IRRITATION - Category 2B
pAAV-MCS Vector	Not applicable.
pCMV-MCS Vector	Not applicable.
pAAV-LacZ Vector	Not applicable.
pAAV-RC Plasmid	Not applicable.
pHelper Vector	Not applicable.

Composition/information on ingredients

Name	%	Classification
AAV-293 Cell Line >1 x 10e6 Viable Cells		
Dimethyl sulfoxide	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells		
Dimethyl sulfoxide	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: DIMETHYL SULFOXIDE; METHANE, SULFINYLBIS-

Pennsylvania : None of the components are listed.

California Prop. 65

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : 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.

Section 15. Regulatory information

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
AAV-293 Cell Line >1 x 10e6 Viable Cells EYE IRRITATION - Category 2B	Calculation method
AAV-HT1080 Cell Line >1 x 10e6 Viable Cells EYE IRRITATION - Category 2B	Calculation method

History

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

Date of previous issue : 05/24/2021

Version : 5

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

Indicates information that has changed from previously issued version.

Notice to reader

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