

# SAFETY DATA SHEET

MVP Total RNA - Human Adult Colon - Disease Match Set, Part Number 540077

## Section 1. Identification

### 1.1 Product identifier

**Product name** : MVP Total RNA - Human Adult Colon - Disease Match Set, Part Number 540077  
**Part No. (Chemical Kit)** : 540077  
**Part No.** :  MVP Total RNA, Human Adult Colon 540009-41  
 MVP Total RNA Colon Adenocarcinoma 540079-41  
 Human Adult  
**Validation date** : 12/29/2017

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

**Material uses** : Analytical reagent.  
 MVP Total RNA, Human Adult Colon 25 µg  
 MVP Total RNA Colon Adenocarcinoma Human Adult 25 µg

### 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

<b>OSHA/HCS status</b> : <input checked="" type="checkbox"/> MVP Total RNA, Human Adult Colon	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.
MVP Total RNA Colon Adenocarcinoma Human Adult	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

Not classified.

### 2.2 GHS label elements

**Signal word** :  MVP Total RNA, Human Adult Colon No signal word.  
 MVP Total RNA Colon Adenocarcinoma Human Adult No signal word.

## Section 2. Hazards identification

<b>Hazard statements</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Not applicable. Not applicable.
<b>Response</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Not applicable. Not applicable.
<b>Storage</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Not applicable. Not applicable.
<b>Disposal</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Not applicable. Not applicable.
<b>Supplemental label elements</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	None known. None known.

### 2.3 Other hazards

<b>Hazards not otherwise classified</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	None known. None known.
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## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Mixture Mixture
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Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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 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

<b>Eye contact</b>	: MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	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. 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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## Section 4. First aid measures

<b>Inhalation</b>	: MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Inhalation</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Skin contact</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.  No known significant effects or critical hazards.
<b>Ingestion</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.  No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No specific data.  No specific data.
<b>Inhalation</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No specific data.  No specific data.

## Section 4. First aid measures

<b>Skin contact</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	
<b>Ingestion</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	

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

<b>Notes to physician</b>	: MVP Total RNA, Human Adult Colon	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	MVP Total RNA Colon	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Adenocarcinoma Human Adult	
<b>Specific treatments</b>	: MVP Total RNA, Human Adult Colon	No specific treatment.
	MVP Total RNA Colon	No specific treatment.
	Adenocarcinoma Human Adult	
<b>Protection of first-aiders</b>	: MVP Total RNA, Human Adult Colon	No action shall be taken involving any personal risk or without suitable training.
	MVP Total RNA Colon	No action shall be taken involving any personal risk or without suitable training.
	Adenocarcinoma Human Adult	

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media



<b>Suitable extinguishing media</b>	: MVP Total RNA, Human Adult Colon	Use an extinguishing agent suitable for the surrounding fire.
	MVP Total RNA Colon	Use an extinguishing agent suitable for the surrounding fire.
	Adenocarcinoma Human Adult	
<b>Unsuitable extinguishing media</b>	: MVP Total RNA, Human Adult Colon	None known.
	MVP Total RNA Colon	None known.
	Adenocarcinoma Human Adult	

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: MVP Total RNA, Human Adult Colon	In a fire or if heated, a pressure increase will occur and the container may burst.
	MVP Total RNA Colon	In a fire or if heated, a pressure increase will occur and the container may burst.
	Adenocarcinoma Human Adult	
<b>Hazardous thermal decomposition products</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	



### 5.3 Advice for firefighters

## Section 5. Fire-fighting measures


<b>Special protective actions for fire-fighters</b>	:  MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	:  MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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

<b>For non-emergency personnel</b>	:  MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	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. 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.
<b>For emergency responders</b>	:  MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	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". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

:  MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
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### 6.3 Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

<b>Methods for cleaning up</b>	: <input checked="" type="checkbox"/> MVP Total RNA, Human Adult Colon	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.
	MVP Total RNA Colon Adenocarcinoma Human Adult	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

<b>Protective measures</b>	: <input checked="" type="checkbox"/> MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: <input checked="" type="checkbox"/> MVP Total RNA, Human Adult Colon  MVP Total RNA Colon Adenocarcinoma Human Adult	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

: <input checked="" type="checkbox"/> MVP Total RNA, Human Adult Colon	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.
MVP Total RNA Colon Adenocarcinoma Human Adult	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.

## Section 7. Handling and storage

### 7.3 Specific end use(s)

<b>Recommendations</b>	: MVP Total RNA, Human Adult Colon	Industrial applications.
	MVP Total RNA Colon	Industrial applications.
	Adenocarcinoma Human Adult	
<b>Industrial sector specific solutions</b>	: MVP Total RNA, Human Adult Colon	Not applicable.
	MVP Total RNA Colon	Not applicable.
	Adenocarcinoma Human Adult	

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
None.	

### 8.2 Exposure controls

<b>Appropriate engineering controls</b>	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls</b>	: 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

<b>Hygiene measures</b>	: 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.
<b>Eye/face protection</b>	: 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.
<b>Skin protection</b>	
<b>Hand protection</b>	: 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.
<b>Body protection</b>	: 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.
<b>Other skin protection</b>	: 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.
<b>Respiratory protection</b>	: 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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: MVP Total RNA, Human Adult Colon	Liquid.
	MVP Total RNA Colon	Liquid.
	Adenocarcinoma Human Adult	
<b>Color</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Odor</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Odor threshold</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>pH</b>	: MVP Total RNA, Human Adult Colon	8
	MVP Total RNA Colon	8
	Adenocarcinoma Human Adult	
<b>Melting point</b>	: MVP Total RNA, Human Adult Colon	0°C (32°F)
	MVP Total RNA Colon	0°C (32°F)
	Adenocarcinoma Human Adult	
<b>Boiling point</b>	: MVP Total RNA, Human Adult Colon	100°C (212°F)
	MVP Total RNA Colon	100°C (212°F)
	Adenocarcinoma Human Adult	
<b>Flash point</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Evaporation rate</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Flammability (solid, gas)</b>	: MVP Total RNA, Human Adult Colon	Not applicable.
	MVP Total RNA Colon	Not applicable.
	Adenocarcinoma Human Adult	
<b>Lower and upper explosive (flammable) limits</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Vapor pressure</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Vapor density</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	



## Section 9. Physical and chemical properties

<b>Relative density</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Solubility</b>	: MVP Total RNA, Human Adult Colon	Easily soluble in the following materials: cold water and hot water.
	MVP Total RNA Colon	Easily soluble in the following materials: cold water and hot water.
	Adenocarcinoma Human Adult	
<b>Partition coefficient: n-octanol/water</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Auto-ignition temperature</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Decomposition temperature</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	
<b>Viscosity</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: MVP Total RNA, Human Adult Colon	No specific test data related to reactivity available for this product or its ingredients.
	MVP Total RNA Colon	No specific test data related to reactivity available for this product or its ingredients.
	Adenocarcinoma Human Adult	
<b>10.2 Chemical stability</b>	: MVP Total RNA, Human Adult Colon	The product is stable.
	MVP Total RNA Colon	The product is stable.
	Adenocarcinoma Human Adult	
<b>10.3 Possibility of hazardous reactions</b>	: MVP Total RNA, Human Adult Colon	Under normal conditions of storage and use, hazardous reactions will not occur.
	MVP Total RNA Colon	Under normal conditions of storage and use, hazardous reactions will not occur.
	Adenocarcinoma Human Adult	
<b>10.4 Conditions to avoid</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	
<b>10.5 Incompatible materials</b>	: MVP Total RNA, Human Adult Colon	May react or be incompatible with oxidizing materials.
	MVP Total RNA Colon	May react or be incompatible with oxidizing materials.
	Adenocarcinoma Human Adult	

## Section 10. Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: MVP Total RNA, Human Adult Colon	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	MVP Total RNA Colon Adenocarcinoma Human Adult	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.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

<b>Information on the likely routes of exposure</b>	: MVP Total RNA, Human Adult Colon	Not available.
	MVP Total RNA Colon	Not available.
	Adenocarcinoma Human Adult	

### Potential acute health effects

<b>Eye contact</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.
<b>Inhalation</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards.

## Section 11. Toxicological information

<b>Skin contact</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	
<b>Ingestion</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	
<b>Inhalation</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	
<b>Skin contact</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	
<b>Ingestion</b>	: MVP Total RNA, Human Adult Colon	No specific data.
	MVP Total RNA Colon	No specific data.
	Adenocarcinoma Human Adult	

### 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

<b>General</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	
<b>Carcinogenicity</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	
<b>Mutagenicity</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	
<b>Teratogenicity</b>	: MVP Total RNA, Human Adult Colon	No known significant effects or critical hazards.
	MVP Total RNA Colon	No known significant effects or critical hazards.
	Adenocarcinoma Human Adult	

## Section 11. Toxicological information

<b>Developmental effects</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: MVP Total RNA, Human Adult Colon MVP Total RNA Colon Adenocarcinoma Human Adult	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### 12.1 Toxicity

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.

**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.

## Section 13. Disposal considerations

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 Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 311:** Edetic acid

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

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : MVP Total RNA, Human Adult Colon Not applicable.  
MVP Total RNA Colon Not applicable.  
Adenocarcinoma Human Adult

#### Composition/information on ingredients

No products were found.

## Section 15. Regulatory information

### State regulations

- Massachusetts** : None of the components are listed.  
**New York** : None of the components are listed.  
**New Jersey** : None of the components are listed.  
**Pennsylvania** : None of the components are listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Europe** : All components are listed or exempted.  
**Japan** :  **Japan inventory (ENCS)**: All components are listed or exempted.  
 **Japan inventory (ISHL)**: All components are listed or exempted.  
**Malaysia** : Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.  
**Republic of Korea** : All components are listed or exempted.  
**Taiwan** : All components are listed or exempted.  
**Thailand** :  Not determined.  
**Turkey** :  Not determined.  
**United States** : All components are listed or exempted.  
**Viet Nam** :  Not determined.

## Section 16. Other information

### History

- Date of issue** : 12/29/2017  
**Date of previous issue** : 09/28/2015.  
**Version** : 2

Indicates information that has changed from previously issued version.

### Notice to reader

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