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 Human Adult 540079-41
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

OSHA/HCS status: 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
MVP Total RNA Colon Adenocarcinoma Human Adult
- No signal word.

Date of issue: 12/29/2017
Section 2. Hazards identification

Hazard statements:
- 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.

Precautionary statements:

Prevention:
- MVP Total RNA, Human Adult Colon: Not applicable.
- MVP Total RNA Colon Adenocarcinoma Human Adult: Not applicable.

Response:
- MVP Total RNA, Human Adult Colon: Not applicable.
- MVP Total RNA Colon Adenocarcinoma Human Adult: Not applicable.

Storage:
- MVP Total RNA, Human Adult Colon: Not applicable.
- MVP Total RNA Colon Adenocarcinoma Human Adult: Not applicable.

Disposal:
- MVP Total RNA, Human Adult Colon: Not applicable.
- MVP Total RNA Colon Adenocarcinoma Human Adult: Not applicable.

Supplemental label elements:
- MVP Total RNA, Human Adult Colon: None known.
- MVP Total RNA Colon Adenocarcinoma Human Adult: None known.

2.3 Other hazards

Hazards not otherwise classified:
- MVP Total RNA, Human Adult Colon: None known.
- MVP Total RNA Colon Adenocarcinoma Human Adult: None known.

Section 3. Composition/information on ingredients

Substance/mixture:
- MVP Total RNA, Human Adult Colon: Mixture
- MVP Total RNA Colon Adenocarcinoma Human Adult: Mixture

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

Eye contact:
- MVP Total RNA, Human Adult Colon: 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.
- 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.

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Section 4. First aid measures

**Inhalation**

- 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.

**Skin contact**

- 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.

**Ingestion**

- 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.

4.2 Most important symptoms/effects, acute and delayed

**Potential acute health effects**

**Eye contact**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No known significant effects or critical hazards.

**Inhalation**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No known significant effects or critical hazards.

**Skin contact**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No known significant effects or critical hazards.

**Ingestion**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No specific data.

**Inhalation**

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

No specific data.

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Section 4. First aid measures

**Skin contact**: MVP Total RNA, Human Adult Colon
No specific data.

**Ingestion**: MVP Total RNA, Human Adult Colon
No specific data.

**Notes to physician**: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: 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**: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**: None known.

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

**Specific hazards arising from the chemical**: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products**: No specific data.

**5.3 Advice for firefighters**

Date of issue : 12/29/2017
### Section 5. Fire-fighting measures

**Special protective actions for fire-fighters**

MVP Total RNA, Human Adult Colon

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.

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.

**Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.**

**Special protective equipment for fire-fighters**

MVP Total RNA, Human Adult Colon

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

MVP Total RNA Colon Adenocarcinoma Human Adult

### Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

MVP Total RNA, Human Adult Colon

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.

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.

**For emergency responders**

MVP Total RNA, Human Adult Colon

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".

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".

#### 6.2 Environmental precautions

MVP Total RNA, Human Adult Colon

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).

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).

#### 6.3 Methods and materials for containment and cleaning up

*Date of issue: 12/29/2017*
### Section 6. Accidental release measures

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>Safety measures for spills and leaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>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.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>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.</td>
</tr>
</tbody>
</table>

### Section 7. Handling and storage

#### 7.1 Precautions for safe handling

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Safety measures for handling and storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Advice on general occupational hygiene</th>
<th>Safety measures for handling and storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>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.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Safety measures for storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
</tbody>
</table>

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Section 7. Handling and storage

7.3 Specific end use(s)

Recommendations:

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

Industrial sector specific solutions:

- MVP Total RNA, Human Adult Colon
- MVP Total RNA Colon Adenocarcinoma Human Adult

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

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: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

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

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

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

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Lower and upper explosive</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td>(flammable) limits</td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>MVP Total RNA, Human Adult Colon</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
</tr>
</tbody>
</table>

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### Section 9. Physical and chemical properties

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

### Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Section</th>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1 Reactivity</td>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>10.2 Chemical stability</td>
<td>MVP Total RNA, Human Adult Colon</td>
<td>The product is stable.</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>10.3 Possibility of hazardous reactions</td>
<td>MVP Total RNA, Human Adult Colon</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>10.4 Conditions to avoid</td>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific data.</td>
</tr>
<tr>
<td>10.5 Incompatible materials</td>
<td>MVP Total RNA, Human Adult Colon</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
<tr>
<td></td>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>May react or be incompatible with oxidizing materials.</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity

10.6 Hazardous decomposition products

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.

Information on the likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Potential acute health effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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### Section 11. Toxicological information

#### Skin contact

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

#### Ingestion

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

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

#### Eye contact

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific data.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Inhalation

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific data.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Skin contact

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific data.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Ingestion

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No specific data.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

#### Short term exposure

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential delayed effects</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

#### Long term exposure

<table>
<thead>
<tr>
<th>Potential immediate effects</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Potential delayed effects</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

#### Potential chronic health effects

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No known significant effects or critical hazards.</td>
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<tr>
<td>MVP Total RNA, Human Adult Colon</td>
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<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
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<table>
<thead>
<tr>
<th>Source</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Colon</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td>MVP Total RNA Colon Adenocarcinoma Human Adult</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

**Developmental effects**: 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.

**Fertility effects**: 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.

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 : Not applicable.

SARA 304 RQ : Not applicable.

SARA 311/312 Classification : Not applicable.

Composition/information on ingredients

No products were found.

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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.

Date of issue : 12/29/2017