SAFETY DATA SHEET
MVP Total RNA - Human Adult Kidney - Disease Match Set, Part Number 540083

Section 1. Identification

1.1 Product identifier

Product name: MVP Total RNA - Human Adult Kidney - Disease Match Set, Part Number 540083

Part No. (Chemical Kit): 540083

Part No.: MVP Total RNA Human Adult Kidney 540013-41
MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma 540081-41

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 Kidney 25 µg
MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma 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 Kidney

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, Human Adult Kidney, Renal Cell Carcinoma

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 Kidney

No signal word.

MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma

No signal word.

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Section 2. Hazards identification

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

Precautionary statements

Prevention

<table>
<thead>
<tr>
<th>Prevention</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Response

<table>
<thead>
<tr>
<th>Response</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Storage

<table>
<thead>
<tr>
<th>Storage</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Disposal

<table>
<thead>
<tr>
<th>Disposal</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Supplemental label elements

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>None known.</td>
</tr>
</tbody>
</table>

2.3 Other hazards

Hazards not otherwise classified

<table>
<thead>
<tr>
<th>Hazards not otherwise classified</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>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.</td>
</tr>
</tbody>
</table>

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### Section 4. First aid measures

<table>
<thead>
<tr>
<th><strong>Inhalation</strong></th>
<th><strong>MVP Total RNA Human Adult Kidney</strong></th>
<th>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</strong></td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Skin contact</strong></th>
<th><strong>MVP Total RNA Human Adult Kidney</strong></th>
<th>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</strong></td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ingestion</strong></th>
<th><strong>MVP Total RNA Human Adult Kidney</strong></th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Potential acute health effects</th>
<th><strong>Eye contact</strong></th>
<th><strong>Inhalation</strong></th>
<th><strong>Skin contact</strong></th>
<th><strong>Ingestion</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MVP Total RNA Human Adult Kidney</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td><strong>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</strong></td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Over-exposure signs/symptoms</th>
<th><strong>Eye contact</strong></th>
<th><strong>Inhalation</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MVP Total RNA Human Adult Kidney</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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## Section 4. First aid measures

<table>
<thead>
<tr>
<th>Property</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin contact</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Notes to physician</strong></td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td><strong>Specific treatments</strong></td>
<td>No specific treatment.</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td><strong>Protection of first-aiders</strong></td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Property</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suitable extinguishing media</strong></td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td><strong>Unsuitable extinguishing media</strong></td>
<td>None known.</td>
<td>None known.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Specific hazards arising from the chemical</strong></td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td><strong>Hazardous thermal decomposition products</strong></td>
<td>No specific data.</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

### 5.3 Advice for firefighters

See toxicological information (Section 11)
### Section 5. Fire-fighting measures

**Special protective actions for fire-fighters**

<table>
<thead>
<tr>
<th>Description</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Special protective equipment for fire-fighters**

<table>
<thead>
<tr>
<th>Description</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Section 6. Accidental release measures

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

**For non-emergency personnel**

<table>
<thead>
<tr>
<th>Description</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**For emergency responders**

<table>
<thead>
<tr>
<th>Description</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 &quot;For non-emergency personnel&quot;.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 6.2 Environmental precautions

<table>
<thead>
<tr>
<th>Description</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>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).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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Section 6. Accidental release measures

Methods for cleaning up:  
- MVP Total RNA Human Adult Kidney
  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, Human Adult Kidney, Renal Cell Carcinoma
  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:  
- MVP Total RNA Human Adult Kidney
  Put on appropriate personal protective equipment (see Section 8).

- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma
  Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene:  
- MVP Total RNA Human Adult Kidney
  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.

- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma
  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:  
- MVP Total RNA Human Adult Kidney
  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, Human Adult Kidney, Renal Cell Carcinoma
  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.

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Section 7. Handling and storage

7.3 Specific end use(s)

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Industrial sector specific solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA Human Adult Kidney</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Environmental exposure controls</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Good general ventilation should be sufficient to control worker exposure to airborne contaminants.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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.

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# Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

### Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Melting point</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

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Section 9. Physical and chemical properties

Relative density
- MVP Total RNA Human Adult Kidney: Not available.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Not available.

Solubility
- MVP Total RNA Human Adult Kidney: Easily soluble in the following materials: cold water and hot water.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water
- MVP Total RNA Human Adult Kidney: Not available.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Not available.

Auto-ignition temperature
- MVP Total RNA Human Adult Kidney: Not available.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Not available.

Decomposition temperature
- MVP Total RNA Human Adult Kidney: Not available.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Not available.

Viscosity
- MVP Total RNA Human Adult Kidney: Not available.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Not available.

Section 10. Stability and reactivity

10.1 Reactivity
- MVP Total RNA Human Adult Kidney: No specific test data related to reactivity available for this product or its ingredients.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability
- MVP Total RNA Human Adult Kidney: The product is stable.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: The product is stable.

10.3 Possibility of hazardous reactions
- MVP Total RNA Human Adult Kidney: Under normal conditions of storage and use, hazardous reactions will not occur.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
- MVP Total RNA Human Adult Kidney: No specific data.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: No specific data.

10.5 Incompatible materials
- MVP Total RNA Human Adult Kidney: May react or be incompatible with oxidizing materials.
- MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma: May react or be incompatible with oxidizing materials.

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### Section 10. Stability and reactivity

<table>
<thead>
<tr>
<th>10.6 Hazardous decomposition products</th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td></td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>

### 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></th>
<th>MVP Total RNA Human Adult Kidney</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

#### Potential acute health effects

**Eye contact**
- No known significant effects or critical hazards.

**Inhalation**
- No known significant effects or critical hazards.
Section 11. Toxicological information

**MVP Total RNA Human Adult Kidney**

No known significant effects or critical hazards.

**MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma**

No known significant effects or critical hazards.

**Ingestion**

No known significant effects or critical hazards.

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

**Eye contact**

No specific data.

**Inhalation**

No specific data.

**Skin contact**

No specific data.

**Ingestion**

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**

No known significant effects or critical hazards.

**Carcinogenicity**

No known significant effects or critical hazards.

**Mutagenicity**

No known significant effects or critical hazards.

**Teratogenicity**

No known significant effects or critical hazards.
Section 11. Toxicological information

Developmental effects: MVP Total RNA Human Adult Kidney
MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma
No known significant effects or critical hazards.

Fertility effects: MVP Total RNA Human Adult Kidney
MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma
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 Classification : Not applicable.

SARA 311/312 Classification : MVP Total RNA Human Adult Kidney

MVP Total RNA, Human Adult Kidney, Renal Cell Carcinoma : 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

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