

# SAFETY DATA SHEET

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

## Section 1. Identification

**Product identifier** : 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

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

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

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

**Emergency telephone number (with hours of operation)** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

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

**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.

## Section 2. Hazard identification

|  |  |                                    |
|--|--|------------------------------------|
| <b>Storage</b>   | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult | Not applicable.<br>Not applicable. |
| <b>Disposal</b>  | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult | Not applicable.<br>Not applicable. |
| <b>Supplemental label elements</b>                         | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult | None known.<br>None known.         |
| <b>Other hazards which do not result in classification</b> | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult | None known.<br>None known.         |

## Section 3. Composition/information on ingredients

|                          |  |                    |
|--------------------------|--|--------------------|
| <b>Substance/mixture</b> | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult | Mixture<br>Mixture |
|--------------------------|--|--------------------|

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

## Section 4. First-aid measures

### Description of necessary first aid measures

|                     |  |  |
|---------------------|--|--|
| <b>Eye contact</b>  | : MVP Total RNA, Human Adult Colon<br><br>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.<br><br>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. |
| <b>Inhalation</b>   | : MVP Total RNA, Human Adult Colon<br><br>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.<br><br>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<br><br>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.<br><br>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.   |

## Section 4. First-aid measures

|                  |  |  |
|------------------|--|--|
| <b>Ingestion</b> | : MVP Total RNA, Human Adult Colon             | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
|                  | MVP Total RNA Colon Adenocarcinoma Human Adult | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |

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

#### 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. |
| <b>Skin 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>Ingestion</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. |

#### Over-exposure signs/symptoms

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

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

## Section 4. First-aid measures

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

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 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 Adenocarcinoma Human Adult | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Unsuitable extinguishing media</b>               | : MVP Total RNA, Human Adult Colon             | None known.   |
|   | MVP Total RNA Colon Adenocarcinoma Human Adult | None known.   |
| <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 Adenocarcinoma Human Adult | In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Hazardous thermal decomposition products</b>     | : MVP Total RNA, Human Adult Colon             | No specific data.   |
|   | MVP Total RNA Colon Adenocarcinoma Human Adult | No specific data.   |
| <b>Special protective actions for fire-fighters</b> | : 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. |

## Section 5. Fire-fighting measures

|   |  |   |
|---|--|---|
| <b>Special protective equipment for fire-fighters</b> | : 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 | 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

### Personal precautions, protective equipment and emergency procedures

|   |  |   |
|---|--|---|
| <b>For non-emergency personnel</b>                                  | : 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.                     |
| <b>For emergency responders</b>                                     | : 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".   |
| <b>Environmental precautions</b>                                    | : 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).   |
| <b><u>Methods and materials for containment and cleaning up</u></b> |  |   |
| <b>Methods for cleaning up</b>                                      | : 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

### Precautions for safe handling

|   |  |  |
|---|--|--|
| <b>Protective measures</b>  | : MVP Total RNA, Human Adult Colon<br>MVP Total RNA Colon Adenocarcinoma Human Adult     | Put on appropriate personal protective equipment (see Section 8).<br>Put on appropriate personal protective equipment (see Section 8).   |
| <b>Advice on general occupational hygiene</b>                       | : MVP Total RNA, Human Adult Colon<br><br>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.<br>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.   |
| <b>Conditions for safe storage, including any incompatibilities</b> | : MVP Total RNA, Human Adult Colon<br><br>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.<br>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 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

None.

### Biological exposure indices

None known.

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

## Section 8. Exposure controls/personal protection

**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 and safety characteristics

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

### Appearance

|                       |  |                |
|-----------------------|--|----------------|
| <b>Physical state</b> | : MVP Total RNA, Human Adult Colon               | Liquid.        |
|                       | : MVP Total RNA Colon Adenocarcinoma Human Adult | Liquid.        |
| <b>Color</b>          | : MVP Total RNA, Human Adult Colon               | Not available. |
|                       | : MVP Total RNA Colon Adenocarcinoma Human Adult | Not available. |
| <b>Odor</b>           | : MVP Total RNA, Human Adult Colon               | Not available. |
|                       | : MVP Total RNA Colon Adenocarcinoma Human Adult | Not available. |

## Section 9. Physical and chemical properties and safety characteristics

**Odor threshold** : MVP Total RNA, Human Adult Colon Not available.  
MVP Total RNA Colon Adenocarcinoma Human Adult Not available.

**pH** : MVP Total RNA, Human Adult Colon 8  
MVP Total RNA Colon Adenocarcinoma Human Adult 8

**Melting point/freezing point** : MVP Total RNA, Human Adult Colon 0°C (32°F)  
MVP Total RNA Colon Adenocarcinoma Human Adult 0°C (32°F)

**Boiling point, initial boiling point, and boiling range** : MVP Total RNA, Human Adult Colon 100°C (212°F)  
MVP Total RNA Colon Adenocarcinoma Human Adult 100°C (212°F)

**Flash point** : MVP Total RNA, Human Adult Colon Not available.  
MVP Total RNA Colon Adenocarcinoma Human Adult Not available.

**Evaporation rate** : MVP Total RNA, Human Adult Colon Not available.  
MVP Total RNA Colon Adenocarcinoma Human Adult Not available.

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

**Lower and upper explosion limit/flammability limit** : MVP Total RNA, Human Adult Colon Not available.  
MVP Total RNA Colon Adenocarcinoma Human Adult Not available.

| Vapor pressure | Ingredient name                                | Vapor Pressure at 20°C |     |        | Vapor pressure at 50°C |      |        |
|----------------|--|------------------------|-----|--------|------------------------|------|--------|
|                |  | mm Hg                  | kPa | Method | mm Hg                  | kPa  | Method |
|                | MVP Total RNA, Human Adult Colon               |                        |     |        |                        |      |        |
|                | water  | 23.8                   | 3.2 |        | 92.258                 | 12.3 |        |
|                | MVP Total RNA Colon Adenocarcinoma Human Adult |                        |     |        |                        |      |        |

## Section 9. Physical and chemical properties and safety characteristics

|   |       |  |     |                 |        |      |  |
|---|-------|--|-----|-----------------|--------|------|--|
|   | water | 23.8   | 3.2 |                 | 92.258 | 12.3 |  |
| <b>Relative vapor density</b>                 | :     | MVP Total RNA, Human Adult Colon                     |     | Not available.  |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not available.  |        |      |  |
| <b>Relative density</b>                       | :     | MVP Total RNA, Human Adult Colon                     |     | Not available.  |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not available.  |        |      |  |
| <b>Solubility(ies)</b>                        | :     | <b>Media</b>   |     | <b>Result</b>   |        |      |  |
|   |       | MVP Total RNA, Human Adult Colon water               |     | Soluble         |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult water |     | Soluble         |        |      |  |
| <b>Partition coefficient: n-octanol/water</b> | :     | MVP Total RNA, Human Adult Colon                     |     | Not applicable. |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not applicable. |        |      |  |
| <b>Auto-ignition temperature</b>              | :     | MVP Total RNA, Human Adult Colon                     |     | Not available.  |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not available.  |        |      |  |
| <b>Decomposition temperature</b>              | :     | MVP Total RNA, Human Adult Colon                     |     | Not available.  |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not available.  |        |      |  |
| <b>Viscosity</b>                              | :     | MVP Total RNA, Human Adult Colon                     |     | Not available.  |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not available.  |        |      |  |
| <b>Particle characteristics</b>               |       |  |     |                 |        |      |  |
| <b>Median particle size</b>                   | :     | MVP Total RNA, Human Adult Colon                     |     | Not applicable. |        |      |  |
|   |       | MVP Total RNA Colon Adenocarcinoma Human Adult       |     | Not applicable. |        |      |  |

## Section 10. Stability and reactivity

|                   |   |  |  |  |
|-------------------|---|--|--|--|
| <b>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 Adenocarcinoma Human Adult |  | No specific test data related to reactivity available for this product or its ingredients. |

## Section 10. Stability and reactivity

|   |  |  |
|---|--|--|
| <b>Chemical stability</b>                 | : MVP Total RNA, Human Adult Colon             | The product is stable.   |
|   | MVP Total RNA Colon Adenocarcinoma Human Adult | The product is stable.   |
| <b>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 Adenocarcinoma Human Adult | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : MVP Total RNA, Human Adult Colon             | No specific data.  |
|   | MVP Total RNA Colon Adenocarcinoma Human Adult | No specific data.  |
| <b>Incompatible materials</b>             | : MVP Total RNA, Human Adult Colon             | May react or be incompatible with oxidizing materials.   |
|   | MVP Total RNA Colon Adenocarcinoma Human Adult | May react or be incompatible with oxidizing materials.   |
| <b>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

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Irritation/Corrosion

Not available.

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Not available.

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

## Section 11. Toxicological information

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : MVP Total RNA, Human Adult Colon Not available.  
MVP Total RNA Colon Adenocarcinoma Human Adult Not available.

### Potential acute health effects

**Eye contact** : 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.

**Inhalation** : 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.

**Skin contact** : 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.

**Ingestion** : 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.

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

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

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

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

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

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

## Section 11. Toxicological information

### 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** : 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

**Carcinogenicity** : 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

**Mutagenicity** : 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

**Reproductive toxicity** : 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

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

## Section 12. Ecological information

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

## Section 13. Disposal considerations

**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 14. Transport information

**TDG / IMDG / IATA** : Not regulated.

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

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

### International regulations

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

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

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

Not listed.

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

Not listed.

### Inventory list

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.

**Japan** : **Japan inventory (CSCL):** All components are listed or exempted.  
**Japan inventory (ISHL):** All components are listed or exempted.

**New Zealand** : All components are listed or exempted.

## Section 15. Regulatory information

|                          |  |
|--------------------------|--|
| <b>Philippines</b>       | : All components are listed or exempted.                                     |
| <b>Republic of Korea</b> | : All components are listed or exempted.                                     |
| <b>Taiwan</b>            | : All components are listed or exempted.                                     |
| <b>Thailand</b>          | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| <b>Turkey</b>            | : All components are listed or exempted.                                     |
| <b>United States</b>     | : <input checked="" type="checkbox"/> All components are active or exempted. |
| <b>Viet Nam</b>          | : All components are listed or exempted.                                     |

## Section 16. Other information

### History

|                                       |              |
|---------------------------------------|--------------|
| <b>Date of issue/Date of revision</b> | : 03/23/2023 |
| <b>Date of previous issue</b>         | : 12/25/2019 |
| <b>Version</b>                        | : 6          |

### Key to abbreviations

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

### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

Indicates information that has changed from previously issued version.

### Notice to reader

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