

**SECTION 1: Kit identification** 

## **Tartaric Acid Assay Kit**

Kit SIS (Safety Information Sheet)

Issue date (US):1/10/2018 Revision date (US):4/12/2022 Supersedes (US):1/10/2018 Version (US):1.1

| 1.1. Kit identifier  |  |  |  |   |  |
|--|--|--|--|---|--|
|  |  |  |  |   |  |
| Product name   |  | : Tartaric Acid Assay Kit  | t  |   |  |
| Product code   |  | : K-TART   |  |   |  |
| 2. Details of the supplier of the Kit safety information sheet   |  |  |  |   |  |
| 1.2. Details of the st   | ipplier of the Kit sale  | ty mormation sheet   |  |   |  |
| Megazyme   |  |  |  |   |  |
| Bray Business Park<br>A98 YV29 Bray - Ireland  |  |  |  |   |  |
| T +353 12861220 - F +353   |  |  |  |   |  |
| cs@megazyme.com - www  | /.megazyme.com   |  |  |   |  |
| SECTION 2: General   | information  |  |  |   |  |
|  |  |  |  |   |  |
| This product is a Kit which  | consists of several ind  | ependently packaged com  | nonents  |   |  |
|  |  |  |  |   |  |
| This Kit should be handled   | in accordance with go  | od laboratory practices an   | id appropriate person  | al protective equipment should be used      |  |
| SECTION 3: Kit cont  | ents   |  |  |   |  |
| Nama   | General descripti  | on Ouentitu  | Unit   | CHC US elegation                            |  |
| Name<br>Tartaric Acid Assay Kit  | Buffer   | on Quantity  | pcs (pieces)   | GHS US classification Aquatic Acute 3, H402 |  |
| (Bottle 1)   |  |  |  |   |  |
| Tartaric Acid Assay Kit<br>(Bottle 4)  | Reagent  | 1  | pcs (pieces)   | Carc. 1A, H350                              |  |
| Name   | General descripti  | on Quantity  | Unit   | GHS US classification                       |  |
| Tartaric Acid Assay Kit  | Reagent  | 2  | pcs (pieces)   | Not classified                              |  |
| (Bottle 2)   |  |  |  | Not classified                              |  |
| Tartaric Acid Assav Kit  | Reagent  | 2  | ncs (nieces)   |   |  |
| Tartaric Acid Assay Kit<br>(Bottle 3)  | Reagent  | 2  | pcs (pieces)   |   |  |
| (Bottle 3)   | _  | 2  | pcs (pieces)   |   |  |
|  | _  | 2  | pcs (pieces)   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available  | advice   | 2  | pcs (pieces)   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha  | advice   |  |  |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions   | advice   | : Avoid release to the er  | nvironment   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha  | advice   |  | nvironment   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions   | advice<br>ndling advice  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation</li> </ul>   | nvironment<br>ed place.<br>n of the work station   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions   | advice<br>ndling advice  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate Keep cool.</li> </ul>  | nvironment<br>ed place.<br>n of the work station   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions   | advice<br>ndling advice  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation</li> </ul>   | nvironment<br>ed place.<br>n of the work station   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid   | advice<br>ndling advice<br><sup>ng</sup><br>I measures   | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment  |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey  | advice<br>ndling advice<br>ng<br>I measures<br>e contact   | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> </ul>   | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution   |   |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handli  | advice<br>ndling advice<br>ng<br>I measures<br>e contact<br>gestion  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>octor/physician if you   | feel unwell                                 |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after ing  | advice<br>ndling advice<br>ng<br>I measures<br>e contact<br>gestion<br>nalation  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> </ul>   | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>pctor/physician if you<br>sh air and keep comfo  | feel unwell                                 |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after ing<br>First-aid measures after ing  | advice<br>ndling advice<br>ng<br>d measures<br>e contact<br>gestion<br>halation<br>in contact                                  | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>pctor/physician if you<br>sh air and keep comfo  | feel unwell                                 |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handli<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after ing<br>First-aid measures after inf<br>First-aid measures after inf   | advice<br>ndling advice<br>ng<br>i measures<br>e contact<br>gestion<br>nalation<br>in contact<br>atment                        | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> <li>Wash skin with plenty of</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>pctor/physician if you<br>sh air and keep comfo  | feel unwell                                 |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after inf<br>First-aid measures after inf<br>First-aid measures after inf<br>First-aid measures after ski<br>Other medical advice or tre<br>SECTION 7: Fire fight  | advice<br>ndling advice<br>ng<br>d measures<br>e contact<br>gestion<br>halation<br>in contact<br>atment<br>hting measures      | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> <li>Wash skin with plenty of<br/>Treat symptomatically</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>octor/physician if you<br>sh air and keep comfo<br>of water  | feel unwell<br>rtable for breathing.        |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after inf<br>First-aid measures after inf<br>First-aid measures after inf<br>Section 7: Fire fight   | advice<br>ndling advice<br>ng<br>d measures<br>e contact<br>gestion<br>halation<br>in contact<br>atment<br>hting measures      | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> <li>Wash skin with plenty of<br/>Treat symptomatically</li> </ul>  | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>potor/physician if you<br>sh air and keep comfo<br>of water<br>action without suitab                           | feel unwell                                 |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after ing<br>First-aid measures after ing<br>Section 2000 (Section 2000) (Sec | advice<br>ndling advice<br>ng<br>d measures<br>e contact<br>gestion<br>halation<br>in contact<br>atment<br>hting measures      | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> <li>Wash skin with plenty of<br/>Treat symptomatically</li> <li>Do not attempt to take<br/>Self-contained breathin<br/>Complete protective choice</li> </ul> | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>octor/physician if you<br>sh air and keep comfo<br>of water<br>action without suitab<br>ng apparatus<br>othing | feel unwell<br>rtable for breathing.        |  |
| (Bottle 3)<br>SECTION 4: General<br>No data available<br>SECTION 5: Safe ha<br>Environmental precautions<br>Storage conditions<br>Precautions for safe handlin<br>SECTION 6: First aid<br>First-aid measures after ey<br>First-aid measures after inf<br>First-aid measures after inf<br>First-aid measures after inf<br>Section 7: Fire fight   | advice<br>ndling advice<br>ng<br>d measures<br>e contact<br>gestion<br>halation<br>in contact<br>atment<br>hting measures<br>g | <ul> <li>Avoid release to the er</li> <li>Store in a well-ventilate<br/>Keep cool.</li> <li>Ensure good ventilation<br/>Wear personal protection</li> <li>Rinse eyes with water</li> <li>Call a poison center/do</li> <li>Remove person to fress</li> <li>Wash skin with plenty of</li> <li>Treat symptomatically</li> <li>Do not attempt to take<br/>Self-contained breathing</li> </ul>                          | nvironment<br>ed place.<br>n of the work station<br>ive equipment<br>as a precaution<br>octor/physician if you<br>sh air and keep comfo<br>of water<br>action without suitab<br>ng apparatus<br>othing | feel unwell<br>rtable for breathing.        |  |

## **Tartaric Acid Assay Kit**

Kit SIS (Safety Information Sheet)

fire

## **SECTION 8: Other information**

No data available



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 01/10/2018 Revision date: 03/21/2022 Supersedes: 01/10/2018

| SECTION 1: Identification  |  |
|--|--|
| 1.1. Identification  |  |
| Product form   | : Mixture  |
| Product name   | : Tartaric Acid Assay Kit (Bottle 4)   |
| Product code   |  |
|  | : K-TART (Bottle 4)  |
| 1.2. Recommended use and restrictions  |  |
| Use of the substance/mixture   | : Use as laboratory reagent  |
| 1.3. Supplier  |  |
| Megazyme<br>Bray Business Park<br>Bray, A98 YV29 - Ireland<br>T +353 12861220 - F +353 12861264<br>cs@megazyme.com - www.megazyme.com  |  |
| 1.4. Emergency telephone number  |  |
| Emergency number   | : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]  |
| SECTION 2: Hazard(s) identification  |  |
| 2.1. Classification of the substance or m  | ixture   |
| GHS US classification  |  |
| Carcinogenicity Category 1A  | May cause cancer   |
|  |  |
| 2.2. GHS Label elements, including prec  |  |
| z.z. Ono Laber elements, including prec  | autionary statements   |
| GHS US labeling  | autionary statements   |
|  | · · · · · · · · · · · · · · · · · · ·  |
| GHS US labeling  | : Danger   |
| GHS US labeling<br>Hazard pictograms (GHS US)  |  |
| GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)  | : Danger   |
| GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)  | <ul> <li>Danger</li> <li>Danger</li> <li>May cause cancer</li> <li>Obtain special instructions before use.<br/>Do not handle until all safety precautions have been read and understood.<br/>Wear eye protection, protective clothing, protective gloves<br/>If exposed or concerned: Get medical advice/attention.<br/>Store locked up.<br/>Dispose of contents/container to</li> </ul>   |
| GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)<br>Precautionary statements (GHS US)   | <ul> <li>Danger</li> <li>Danger</li> <li>May cause cancer</li> <li>Obtain special instructions before use.<br/>Do not handle until all safety precautions have been read and understood.<br/>Wear eye protection, protective clothing, protective gloves<br/>If exposed or concerned: Get medical advice/attention.<br/>Store locked up.<br/>Dispose of contents/container to</li> </ul>   |
| GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)<br>Precautionary statements (GHS US)<br>2.3. Other hazards which do not result in  | <ul> <li>Danger</li> <li>Danger</li> <li>May cause cancer</li> <li>Obtain special instructions before use.<br/>Do not handle until all safety precautions have been read and understood.<br/>Wear eye protection, protective clothing, protective gloves<br/>If exposed or concerned: Get medical advice/attention.<br/>Store locked up.<br/>Dispose of contents/container to</li> </ul>   |
| GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)<br>Precautionary statements (GHS US)<br>2.3. Other hazards which do not result in<br>No additional information available   | <ul> <li>Danger</li> <li>Danger</li> <li>May cause cancer</li> <li>Obtain special instructions before use.<br/>Do not handle until all safety precautions have been read and understood.<br/>Wear eye protection, protective clothing, protective gloves<br/>If exposed or concerned: Get medical advice/attention.<br/>Store locked up.<br/>Dispose of contents/container to</li> </ul>   |
| GHS US labeling         Hazard pictograms (GHS US)         Signal word (GHS US)         Hazard statements (GHS US)         Precautionary statements (GHS US)         Precautionary statements (GHS US)         No additional information available         2.4.       Unknown acute toxicity (GHS US)         Not applicable   | <ul> <li>: Variable in the image of the imag</li></ul> |
| GHS US labeling         Hazard pictograms (GHS US)         Signal word (GHS US)         Hazard statements (GHS US)         Precautionary statements (GHS US)         Precautionary statements (GHS US)         No additional information available         2.4.       Unknown acute toxicity (GHS US)         Not applicable         SECTION 3: Composition/Information                                | <ul> <li>: Variable in the image of the imag</li></ul> |
| GHS US labeling         Hazard pictograms (GHS US)         Signal word (GHS US)         Hazard statements (GHS US)         Precautionary statements (GHS US)         Precautionary statements (GHS US)         No additional information available         2.4.       Unknown acute toxicity (GHS US)         Not applicable         SECTION 3: Composition/Informatio         3.1.         Substances | <ul> <li>: Variable in the image of the imag</li></ul> |
| GHS US labeling         Hazard pictograms (GHS US)         Signal word (GHS US)         Hazard statements (GHS US)         Precautionary statements (GHS US)         Precautionary statements (GHS US)         No additional information available         2.4.       Unknown acute toxicity (GHS US)         Not applicable         SECTION 3: Composition/Information                                | <ul> <li>: Variable in the image of the imag</li></ul> |

Version: 1.0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name          | Common Name<br>(Synonyms)   | Product identifier  | %       | GHS US classification |
|---------------|---|---------------------|---------|-----------------------|
| sulfuric acid | battery acid / BOV / brown<br>acid / brown oil of vitriol /<br>dihydrogen sulfate /<br>dipping acid / electrolyte<br>acid / hydrogensulfate /<br>matting acid / mattling acid<br>/ nordhausen acid / oil of<br>vitriol / sulfate of hydrogen<br>/ sulfuric acid, anhydrous /<br>sulfuric acid / sulphuric<br>acid / Sulphuric acid with<br>more than 51% acid /<br>vitriol, brown oil | (CAS-No.) 7664-93-9 | 0.1 – 1 | Skin Corr. 1A, H314   |

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures   |   |
|---|---|
| 4.1. Description of first aid measures  |   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.  |
| First-aid measures after skin contact   | : Wash skin with plenty of water.   |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.  |
| First-aid measures after ingestion  | : Call a poison center/doctor/physician if you feel unwell.   |
| 4.2. Most important symptoms and effe   | cts (acute and delayed)   |
|   |   |
| 4.3. Immediate medical attention and sp   | ecial treatment, if necessary   |
| Treat symptomatically.  |   |
| SECTION 5: Fire-fighting measures   |   |
| 5.1. Suitable (and unsuitable) extinguis  | ning media  |
| Suitable extinguishing media  | : Water spray. Dry powder. Foam. Carbon dioxide.  |
| 5.2. Specific hazards arising from the cl   | nemical   |
| Hazardous decomposition products in case of   | : Toxic fumes may be released.  |
| fire  |   |
| 5.3. Special protective equipment and p   |   |
| Protection during firefighting  | : Do not attempt to take action without suitable protective equipment. Self-contained breathing<br>apparatus. Complete protective clothing.   |
|   |   |
|   |   |
| SECTION 6: Accidental release mea   | sures   |
|   |   |
| 6.1.Personal precautions, protective ec6.1.1.For non-emergency personnel  | SURES<br>uipment and emergency procedures   |
| 6.1. Personal precautions, protective ec  | sures   |
| 6.1.Personal precautions, protective ec6.1.1.For non-emergency personnel  | SURES<br>uipment and emergency procedures   |
| 6.1.Personal precautions, protective ed6.1.1.For non-emergency personnelEmergency procedures  | SURES Juipment and emergency procedures  : Ventilate spillage area.  : Do not attempt to take action without suitable protective equipment. For further information   |
| <ul> <li>6.1. Personal precautions, protective ec.</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> </ul>  | SURES uipment and emergency procedures : Ventilate spillage area.   |
| <ul> <li>6.1. Personal precautions, protective ec.</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> <li>6.2. Environmental precautions</li> </ul>  | SURES Juipment and emergency procedures  : Ventilate spillage area.  : Do not attempt to take action without suitable protective equipment. For further information   |
| <ul> <li>6.1. Personal precautions, protective ec.</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> </ul>  | SURES Juipment and emergency procedures  : Ventilate spillage area.  : Do not attempt to take action without suitable protective equipment. For further information   |
| <ul> <li>6.1. Personal precautions, protective ec.</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> <li>6.2. Environmental precautions</li> </ul>  | SURES Juipment and emergency procedures  : Ventilate spillage area.  : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  |
| <ul> <li>6.1. Personal precautions, protective ec.</li> <li>6.1.1. For non-emergency personnel<br/>Emergency procedures</li> <li>6.1.2. For emergency responders<br/>Protective equipment</li> <li>6.2. Environmental precautions<br/>Avoid release to the environment.</li> </ul>  | SURES Juipment and emergency procedures  : Ventilate spillage area.  : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  |
| <ul> <li>6.1. Personal precautions, protective edited.</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment</li> </ul>   | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up   |
| <ul> <li>6.1. Personal precautions, protective edited.</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up</li> </ul>   | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up         : Take up liquid spill into absorbent material. |
| <ul> <li>6.1. Personal precautions, protective edited.</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> </ul>   | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up         : Take up liquid spill into absorbent material. |
| <ul> <li>6.1. Personal precautions, protective edited.</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections</li> </ul>   | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up         : Take up liquid spill into absorbent material. |
| <ul> <li>6.1. Personal precautions, protective economic sectors and the sector sector</li></ul> | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up         : Take up liquid spill into absorbent material. |
| <ul> <li>6.1. Personal precautions, protective economic sectors.</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> <li>6.2. Environmental precautions Avoid release to the environment.</li> <li>6.3. Methods and material for containment Methods for cleaning up Other information</li> <li>6.4. Reference to other sections For further information refer to section 13.</li> <li>SECTION 7: Handling and storage</li> </ul>   | SUres         uipment and emergency procedures         : Ventilate spillage area.         : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".         ent and cleaning up         : Take up liquid spill into absorbent material. |

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| Hygiene    | measures  |                      | : Do no<br>produ | t eat, drink or smoke when usiı<br>ct.                      | ng this pro | duct. Always wash h      | nands after handling the     |
|------------|---|----------------------|------------------|---|-------------|--------------------------|------------------------------|
| 7.2.       | Conditions for sa   | fe storage, includir | ng any ind       | compatibilities   |             |                          |                              |
| Storage of | conditions  |                      | : Store          | in a well-ventilated place. Keep                            | o cool.     |                          |                              |
| SECTIO     | ON 8: Exposure  | e controls/pers      | onal pro         | otection  |             |                          |                              |
| 8.1.       | Control paramete  | rs                   |                  |   |             |                          |                              |
|            |   |                      |                  |   |             |                          |                              |
|            | c Acid Assay Kit (E<br>itional information a  |                      |                  |   |             |                          |                              |
|            | c acid (7664-93-9)  | valiable             |                  |   |             |                          |                              |
|            | . ,   | nal Exposure Limit   | S                |   |             |                          |                              |
|            | TWA (mg/m <sup>3</sup> )  |                      | (                | ).2 mg/m³ (Sulfuric acid; USA;<br>/alue; Thoracic fraction) | Time-weig   | hted average expos       | ure limit 8 h; TLV - Adopted |
|            |   |                      |                  |   |             |                          |                              |
| 8.2.       | Appropriate engi  | neering controls     |                  |   |             |                          |                              |
|            | ate engineering cont  |                      | : Ensur          | e good ventilation of the work                              | station.    |                          |                              |
|            | nental exposure con   |                      |                  | release to the environment.                                 |             |                          |                              |
|            |   |                      | onal prof        |   |             |                          |                              |
| 8.3.       |   | tion measures/Pers   | onal pro         |   |             |                          |                              |
| Hand p     | protection:   |                      |                  |   |             |                          |                              |
| Protect    | ive gloves  |                      |                  | 1   |             |                          | 1                            |
| Туре       |   | Material             |                  | Permeation  | Thickne     | ss (mm)                  | Penetration                  |
| Disposa    | able gloves   | Nitrile rubber (NBF  | R)               | 3 (> 60 minutes)  |             |                          | 2 (< 1.5)                    |
| Eye pro    | otection:   |                      |                  |   |             |                          |                              |
| Safety g   | glasses   |                      |                  |   |             |                          |                              |
| Туре       |   |                      | Use              |   |             | Characteristics          |                              |
| Safety g   | glasses   |                      | Droplet          | let   |             | With side shields, clear |                              |
| Skin ar    | nd body protection  | :                    |                  |   |             |                          |                              |
| Wear s     | uitable protective clo  | othing               |                  |   |             |                          |                              |
| Туре       |   |                      |                  |   |             |                          |                              |
| Lab coa    | at  |                      |                  |   |             |                          |                              |
| Respira    | atory protection:   |                      |                  |   |             |                          |                              |
| In case    | of insufficient ventil  | ation, wear suitable | respirator       | y equipment   |             |                          |                              |
| Device     | In case of insufficient ventilation, wear suitable respiratory equipment           Device         Filter type         Condition |                      |                  |   |             |                          |                              |
| Dust m     | ask   |                      | Type P1          |   |             | Protection for Liqu      | id particles                 |
| Porsona    | I protective equipn   | nont symbol(s):      |                  |   |             |                          |                              |
|            |   |                      |                  |   |             |                          |                              |

| SECTION 9: Physical and chemical properties |   |  |  |
|---|---|--|--|
| 9.1. Information on basic physical          | Information on basic physical and chemical properties |  |  |
| Physical state                              | : Liquid  |  |  |
| Color                                       | : No data available on colour                         |  |  |
| Odor  | : None  |  |  |
|   |   |  |  |

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| Odor threshold                                  | : No data available |
|---|---------------------|
| pH  | : No data available |
| Melting point                                   | : Not applicable    |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Relative evaporation rate (butyl acetate=1)     | : No data available |
| Flammability (solid, gas)                       | : Not applicable.   |
| Vapor pressure                                  | : No data available |
| Relative vapor density at 20 °C                 | : No data available |
| Relative density                                | : No data available |
| Solubility                                      | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : No data available |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |
|   |                     |

## 9.2. Other information

No additional information available

| SECT     | SECTION 10: Stability and reactivity   |  |  |  |  |
|----------|--|--|--|--|--|
| 10.1.    | Reactivity   |  |  |  |  |
| The pro  | The product is non-reactive under normal conditions of use, storage and transport. |  |  |  |  |
| 10.2.    | Chemical stability   |  |  |  |  |
| Otabla   |  |  |  |  |  |
| Stable L | Stable under normal conditions.  |  |  |  |  |
| 10.3.    | Possibility of hazardous reactions   |  |  |  |  |
| No dang  | gerous reactions known under normal conditions of use.                             |  |  |  |  |

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

### **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 (oral)                      | : Not classified       |  |
| Acute toxicity (dermal)                    | : Not classified       |  |
| Acute toxicity (inhalation)                | : Not classified       |  |
| sulfuric acid (7664-93-9)                  |                        |  |
| LD50 oral rat                              | 2140 mg/kg body weight |  |
| Skin corrosion/irritation                  | : Not classified       |  |
| Serious eye damage/irritation              | : Not classified       |  |
| Respiratory or skin sensitization          | : Not classified       |  |
| Germ cell mutagenicity                     | : Not classified       |  |
| Carcinogenicity                            | : May cause cancer.    |  |

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| sulfuric acid (7664-93-9) |                            |
|---------------------------|----------------------------|
| IARC group                | 1 - Carcinogenic to humans |
| Reproductive toxicity     | : Not classified           |
| STOT-single exposure      | : Not classified           |
| STOT-repeated exposure    | : Not classified           |
| Aspiration hazard         | : Not classified           |
| Viscosity, kinematic      | : No data available        |

| SECTION 12: Ecological information |  |
|------------------------------------|--|
| 12.1. Toxicity                     |  |
| Ecology - general                  | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| sulfuric acid (7664-93-9)          |  |
|                                    |  |

| LC50 fish 1                    | 42 mg/l (LC50; 96 h) |  |
|--------------------------------|----------------------|--|
| EC50 Daphnia 1                 | 29 mg/l (EC50; 24 h) |  |
| EC50 other aquatic organisms 1 | > 100 mg/l waterflea |  |
| EC50 other aquatic organisms 2 | > 100 mg/l           |  |

### 12.2. Persistence and degradability

| sulfuric acid (7664-93-9)       |                                  |  |
|---------------------------------|----------------------------------|--|
| Persistence and degradability   | Biodegradability:Not applicable. |  |
| Biochemical oxygen demand (BOD) | Not applicable                   |  |
| Chemical oxygen demand (COD)    | Not applicable                   |  |
| ThOD                            | Not applicable                   |  |
| BOD (% of ThOD)                 | Not applicable                   |  |

### 12.3. Bioaccumulative potential

| sulfuric acid (7664-93-9)                       |                           |
|---|---------------------------|
| Partition coefficient n-octanol/water (Log Pow) | -2.2                      |
| Bioaccumulative potential                       | Bioaccumulation unlikely. |

### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

## 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

### **Transportation of Dangerous Goods**

Not applicable

Transport by sea

Not applicable

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### Air transport

Not applicable

| SECTION 15: Regulatory information  |
|---|
| 15.1. US Federal regulations  |
| No additional information available   |
| 15.2. International regulations   |
| CANADA<br>No additional information available<br>EU-Regulations<br>No additional information available<br>National regulations<br>No additional information available |
| 15.3. US State regulations  |
| No additional information available   |
| SECTION 16: Other information   |

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Revision date

: 03/21/2022

### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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|  | Issue date: 01/10/2018          | Revision date: 02/28/2022         | Supersedes: 01/10/2018 | Version: 1.1 |
|--|---------------------------------|-----------------------------------|------------------------|--------------|
| <b>SECTION 1: Identification</b>   |                                 |                                   |                        |              |
| 1.1. Identification  |                                 |                                   |                        |              |
| Product form   | : Mixture                       |                                   |                        |              |
| Product name   | : Tartaric Acid                 | Assay Kit (Bottle 3)              |                        |              |
| Product code   | : K-TART (Bott                  | le 3)                             |                        |              |
| 1.2. Recommended use an  | d restrictions on use           |                                   |                        |              |
| Use of the substance/mixture   | : Use as labora                 | atory reagent                     |                        |              |
| 1.3. Supplier  |                                 |                                   |                        |              |
| Megazyme<br>Bray Business Park<br>Bray, A98 YV29 - Ireland<br>T +353 12861220 - F +353 128612<br><u>cs@megazyme.com</u> - <u>www.megaz</u> |                                 |                                   |                        |              |
| 1.4. Emergency telephone   | number                          |                                   |                        |              |
| Emergency number   | : +353 128612                   | 20 [9 am to 5 pm GMT - Mond       | ay to Friday]          |              |
| SECTION 2: Hazard(s) ide   | ntification                     |                                   |                        |              |
| 2.1. Classification of the su  |                                 |                                   |                        |              |
| GHS US classification  |                                 |                                   |                        |              |
| Not classified   |                                 |                                   |                        |              |
| 2.2. GHS Label elements, in  | ncluding precautionary staten   | nents                             |                        |              |
| GHS US labeling  |                                 |                                   |                        |              |
| No labeling applicable   |                                 |                                   |                        |              |
| 2.3. Other hazards which d   | o not result in classification  |                                   |                        |              |
| No additional information available  |                                 |                                   |                        |              |
| 2.4. Unknown acute toxicity  |                                 |                                   |                        |              |
| Not applicable   |                                 |                                   |                        |              |
| SECTION 3: Composition   | Information on ingredie         | ents                              |                        |              |
| 3.1. Substances  | 5                               |                                   |                        |              |
| Not applicable   |                                 |                                   |                        |              |
| 3.2. Mixtures  |                                 |                                   |                        |              |
| This mixture does not contain any  |                                 | cording to the criteria of sectio | n 3.2 of HazCom 2012   |              |
| SECTION 4: First-aid mea   |                                 |                                   |                        |              |
| 4.1. Description of first aid  |                                 |                                   |                        |              |
| First-aid measures after inhalation  |                                 | on to fresh air and keep comfo    | ortable for breathing. |              |
| First-aid measures after skin conta  |                                 | th plenty of water.               |                        |              |
| First-aid measures after eye conta   |                                 | ith water as a precaution.        | <b>C</b> 1 1           |              |
| First-aid measures after ingestion   | -                               | center/doctor/physician if you    | teel unwell.           |              |
| 4.2. Most important sympto   | oms and effects (acute and de   | layed)                            |                        |              |
| 4.3. Immediate medical atte  | ention and special treatment, i | if necessary                      |                        |              |
| Treat symptomatically.   |                                 |                                   |                        |              |
| SECTION 5: Fire-fighting   | measures                        |                                   |                        |              |
|  |                                 |                                   |                        |              |

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

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| Hazardous decomposition fire  | •   | : Toxic    | umes may be released.   |            |                       |                            |
|---|---|------------|---|------------|-----------------------|----------------------------|
| 5.3. Special protect  | 5.3. Special protective equipment and precautions for fire-fighters |            |   |            |                       |                            |
| Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |   |            |   |            |                       |                            |
| <b>SECTION 6: Accide</b>  | ntal release meas   | ures       |   |            |                       |                            |
| 6.1. Personal preca   | utions, protective equ  | uipment a  | nd emergency procedures   |            |                       |                            |
| 6.1.1. For non-emerg  | ency personnel  |            |   |            |                       |                            |
| Emergency procedures  |   | : Ventila  | te spillage area.   |            |                       |                            |
| 6.1.2. For emergency  | responders  |            |   |            |                       |                            |
| Protective equipment  |   |            | attempt to take action without<br>section 8: "Exposure controls |            |                       | t. For further information |
| 6.2. Environmental  | precautions   |            |   |            |                       |                            |
| Avoid release to the enviro   | onment.   |            |   |            |                       |                            |
| 6.3. Methods and m  | aterial for containme   | nt and cle | aning up  |            |                       |                            |
| Methods for cleaning up   |   | : Take u   | p liquid spill into absorbent ma                                | aterial.   |                       |                            |
| Other information   |   | : Dispos   | e of materials or solid residue                                 | s at an au | thorized site.        |                            |
| 6.4. Reference to o   | her sections  |            |   |            |                       |                            |
| For further information ref   | er to section 13.   |            |   |            |                       |                            |
| <b>SECTION 7: Handlin</b>   | and storage   |            |   |            |                       |                            |
| 7.1. Precautions fo   |   |            |   |            |                       |                            |
| Precautions for safe hand   | •   | · Ensure   | e good ventilation of the work s                                | station W  | ear personal protecti | ive equipment              |
| Hygiene measures  |   |            | eat, drink or smoke when usir                                   |            |                       |                            |
| 7.2. Conditions for   | safe storage, includir  | ig any inc | ompatibilities  |            |                       |                            |
| Storage conditions  |   | : Store i  | n a well-ventilated place. Keep                                 | o cool.    |                       |                            |
| <b>SECTION 8: Exposit</b>   | ire controls/perso  | onal pro   | tection   |            |                       |                            |
| 8.1. Control parame   | -   |            |   |            |                       |                            |
|   |   |            |   |            |                       |                            |
| Tartaric Acid Assay Kit   |   |            |   |            |                       |                            |
| No additional information available   |   |            |   |            |                       |                            |
| 8.2. Appropriate en   | gineering controls  |            |   |            |                       |                            |
| Appropriate engineering c   |   | : Ensure   | e good ventilation of the work s                                | station.   |                       |                            |
| Environmental exposure of   |   |            | release to the environment.                                     |            |                       |                            |
| 8.3. Individual prote   | ection measures/Pers  | onal prot  | ective equipment  |            |                       |                            |
| Hand protection:  |   |            |   |            |                       |                            |
| Protective gloves   |   |            |   |            |                       |                            |
| Туре  | Material  |            | Permeation  | Thickne    | ess (mm)              | Penetration                |
| Disposable gloves   | Nitrile rubber (NBR   | 2)         | 3 (> 60 minutes)  |            |                       | 2 (< 1.5)                  |
| Eye protection:   |   |            |   |            |                       |                            |
| Safety glasses  |   |            |   |            |                       |                            |
| Туре  |   | Use        |   |            | Characteristics       |                            |
| Safety glasses  |   | Droplet    |   |            | With side shields,    | clear                      |
| Skin and body protecti  | on:   |            |   |            |                       |                            |

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| Wear suitable protective clothing |  |
|-----------------------------------|--|
| Туре                              |  |
| Lab coat                          |  |

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

| Device    | Filter type | Condition                       |
|-----------|-------------|---------------------------------|
| Dust mask | Туре Р1     | Protection for Liquid particles |

#### Personal protective equipment symbol(s):



| 9.1. Information on basic physical and c        | hemical properties            |
|---|-------------------------------|
| Physical state                                  | : Liquid                      |
| Color   | : No data available on colour |
| Odor  | : None                        |
| Odor threshold                                  | : No data available           |
| рН  | : No data available           |
| Melting point                                   | : Not applicable              |
| Freezing point                                  | : No data available           |
| Boiling point                                   | : No data available           |
| Flash point                                     | : No data available           |
| Relative evaporation rate (butyl acetate=1)     | : No data available           |
| Flammability (solid, gas)                       | : Not applicable.             |
| Vapor pressure                                  | : No data available           |
| Relative vapor density at 20 °C                 | : No data available           |
| Relative density                                | : No data available           |
| Solubility                                      | : Soluble in water.           |
| Partition coefficient n-octanol/water (Log Pow) | : No data available           |
| Auto-ignition temperature                       | : No data available           |
| Decomposition temperature                       | : No data available           |
| Viscosity, kinematic                            | : No data available           |
| Viscosity, dynamic                              | : No data available           |
| Explosion limits                                | : No data available           |
| Explosive properties                            | : No data available           |
| Oxidizing properties                            | : No data available           |

No additional information available

| SECTI    | ON 10: Stability and reactivity   |
|----------|---|
| 10.1.    | Reactivity  |
| The proc | duct is non-reactive under normal conditions of use, storage and transport. |
| 10.2.    | Chemical stability  |
| Stable u | nder normal conditions.   |

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### **10.6.** Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

| <b>SECTION 11: Toxicological informat</b>  | tion                |
|--|---------------------|
| 11.1. Information on toxicological effects | i                   |
| Acute toxicity (oral)                      | : Not classified    |
| Acute toxicity (dermal)                    | : Not classified    |
| Acute toxicity (inhalation)                | : Not classified    |
| Skin corrosion/irritation                  | : Not classified    |
| Serious eye damage/irritation              | : Not classified    |
| Respiratory or skin sensitization          | : Not classified    |
| Germ cell mutagenicity                     | : Not classified    |
| Carcinogenicity                            | : Not classified    |
| Reproductive toxicity                      | : Not classified    |
| STOT-single exposure                       | : Not classified    |
| STOT-repeated exposure                     | : Not classified    |
| Aspiration hazard                          | : Not classified    |
| Viscosity, kinematic                       | : No data available |

| SECT    | ION 12: Ecological information |  |
|---------|--------------------------------|--|
| 12.1.   | Toxicity                       |  |
| Ecology | - general                      | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| 12.2.   | Persistence and degradability  |  |
| No addi | tional information available   |  |
| 12.3.   | Bioaccumulative potential      |  |
| No addi | tional information available   |  |
| 12.4.   | Mobility in soil               |  |
| No addi | tional information available   |  |
| 12.5.   | Other adverse effects          |  |
| No addi | tional information available   |  |

| <b>SECTION 13: Disposal consideration</b> | ns  |
|---|---|
| 13.1. Disposal methods                    |   |
| Waste treatment methods                   | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| SECTION 14: Transport information         |   |
| Department of Transportation (DOT)        |   |
| In accordance with DOT                    |   |

#### Not applicable

### **Transportation of Dangerous Goods**

Not applicable

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## Transport by sea

Not applicable

### Air transport

Not applicable

| SECTION 15: Regulatory information   |
|--|
| 15.1. US Federal regulations   |
| No additional information available  |
| 15.2. International regulations  |
| CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available |
| 15.3. US State regulations   |
| No additional information available  |
| SECTION 16: Other information  |

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Revision date

: 02/28/2022

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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| Megazyme   | according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations         Issue date: 01/10/2018       Revision date: 03/21/2022       Supersedes: 01/10/2018       Version: 1.0 |  |
|--|---|--|
| <b>SECTION 1: Identification</b>   |   |  |
| 1.1. Identification  |   |  |
| Product form   | : Mixture   |  |
| Product name   | : Tartaric Acid Assay Kit (Bottle 2)  |  |
| Product code   | : K-TART (Bottle 2)   |  |
| 1.2. Recommended use and re  |   |  |
| Use of the substance/mixture   | : Use as laboratory reagent   |  |
| 1.3. Supplier  |   |  |
| Megazyme<br>Bray Business Park<br>Bray, A98 YV29 - Ireland<br>T +353 12861220 - F +353 12861264<br><u>cs@megazyme.com</u> - <u>www.megazym</u> |   |  |
| 1.4. Emergency telephone nur   |   |  |
|  |   |  |
| Emergency number   | : +353 12861220 [9 am to 5 pm GMT - Monday to Friday]   |  |
| SECTION 2: Hazard(s) identi  | fication  |  |
| 2.1. Classification of the subs  | tance or mixture  |  |
| GHS US classification  |   |  |
| Not classified   |   |  |
| 2.2. GHS Label elements, inclu   | uding precautionary statements  |  |
| GHS US labeling  |   |  |
| No labeling applicable   |   |  |
| 2.3. Other hazards which do n  | ot result in classification   |  |
| No additional information available  |   |  |
| 2.4. Unknown acute toxicity (C   | 3HS US)   |  |
| Not applicable   |   |  |
| <b>SECTION 3: Composition/In</b>   | formation on ingredients  |  |
| 3.1. Substances  |   |  |
| Not applicable   |   |  |
| 3.2. Mixtures  |   |  |
| This mixture does not contain any sub  | ostances to be mentioned according to the criteria of section 3.2 of HazCom 2012  |  |
| <b>SECTION 4: First-aid measu</b>  |   |  |
| 4.1. Description of first aid me   |   |  |
| First-aid measures after inhalation  | : Remove person to fresh air and keep comfortable for breathing.  |  |
| First-aid measures after skin contact  | : Wash skin with plenty of water.   |  |
| First-aid measures after eye contact<br>First-aid measures after ingestion   | <ul> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center/doctor/physician if you feel unwell.</li> </ul>   |  |
|  |   |  |
| 4.2. Most important symptoms   | s and effects (acute and delayed)   |  |
| 4.3. Immediate medical attenti   | ion and special treatment, if necessary   |  |
| Treat symptomatically.   |   |  |
| SECTION 5: Fire-fighting me  | asures  |  |
|  |   |  |

Suitable (and unsuitable) extinguishing media 5.1.

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide.

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| 5.2. Specific hazards arising from the chemical<br>Hazardous decomposition products in case of : Toxic fumes may be released.<br>fire |   |          |   |                 |                       |                            |
|---|---|----------|---|-----------------|-----------------------|----------------------------|
| 5.3. Special protecti   | ve equipment and prec   | cautions | s for fire-fighters   |                 |                       |                            |
| Protection during firefightin   | g :   |          | attempt to take action without atus. Complete protective cloth    |                 | protective equipment  | : Self-contained breathing |
| <b>SECTION 6: Acciden</b>   | ital release measu  | res      |   |                 |                       |                            |
| 6.1. Personal precau  | itions, protective equip  | oment a  | nd emergency procedures   |                 |                       |                            |
| 6.1.1. For non-emerge   | ncy personnel   |          |   |                 |                       |                            |
| Emergency procedures  |   | Ventila  | te spillage area.   |                 |                       |                            |
| 6.1.2. For emergency  | responders  |          |   |                 |                       |                            |
| Protective equipment  | :   |          | attempt to take action without<br>section 8: "Exposure controls   |                 |                       | . For further information  |
| 6.2. Environmental  | precautions   |          |   |                 |                       |                            |
| Avoid release to the enviro   | nment.  |          |   |                 |                       |                            |
| 6.3. Methods and ma   | aterial for containment   | and cle  | aning up  |                 |                       |                            |
| Methods for cleaning up   |   |          | ip liquid spill into absorbent ma                                 | aterial.        |                       |                            |
| Other information   |   |          | e of materials or solid residues                                  |                 | thorized site.        |                            |
| 6.4. Reference to ot  |   |          |   |                 |                       |                            |
| For further information refe  |   |          |   |                 |                       |                            |
|   |   |          |   |                 |                       |                            |
| SECTION 7: Handlin  |   |          |   |                 |                       |                            |
| 7.1. Precautions for  | •   | Frour    | and ventilation of the work of                                    | tation M        | oor porconal protocti | ve equipment               |
| Precautions for safe handlin  |   |          | e good ventilation of the work s<br>eat, drink or smoke when usir |                 |                       |                            |
| Hygiene measures  |   | produc   |   | ig this pro     | Suuci. Aiways washi   | ianus alter rianuling the  |
| 7.2. Conditions for s   | afe storage, including  | any inc  | ompatibilities  |                 |                       |                            |
| Storage conditions  |   |          | n a well-ventilated place. Keep                                   | cool.           |                       |                            |
|   |   |          |   |                 |                       |                            |
| <b>SECTION 8: Exposu</b>  | re controls/persor  | nal pro  | tection   |                 |                       |                            |
| 8.1. Control parame   | ters  |          |   |                 |                       |                            |
|   |   |          |   |                 |                       |                            |
| Tartaric Acid Assay Kit   | (Bottle 2)  |          |   |                 |                       |                            |
| No additional information   | available   |          |   |                 |                       |                            |
|   |   |          |   |                 |                       |                            |
| 8.2. Appropriate eng  | ineering controls   |          |   |                 |                       |                            |
| Appropriate engineering co  |   |          | e good ventilation of the work s                                  | station.        |                       |                            |
| Environmental exposure co   | ntrols :  | Avoid I  | release to the environment.                                       |                 |                       |                            |
| 8.3. Individual protection measures/Personal protective equipment   |   |          |   |                 |                       |                            |
| Hand protection:  |   |          |   |                 |                       |                            |
| Protective gloves   |   |          |   |                 |                       |                            |
| Type Material   |   |          | Permeation  | Thickne         | ess (mm)              | Penetration                |
| Disposable gloves   | Disposable gloves         Nitrile rubber (NBR)         3 (> 60 minutes)         2 (< 1.5) |          |   | 2 (< 1.5)       |                       |                            |
| Eye protection:   |   |          |   |                 |                       |                            |
| Safety glasses  |   |          |   |                 |                       |                            |
| Туре  | L   | Use      |   | Characteristics |                       |                            |
| Safety glasses  | C   | Droplet  | roplet With side shields, clear                                   |                 | clear                 |                            |
| Skin and body protection  | n:  |          |   |                 |                       |                            |

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| Wear suitable protective clothing |
|-----------------------------------|
| Туре                              |
| Lab coat                          |

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

| Device    | Filter type | Condition                       |
|-----------|-------------|---------------------------------|
| Dust mask | Туре Р1     | Protection for Liquid particles |

#### Personal protective equipment symbol(s):



| SECTION 9: Physical and chemical                           | properties                    |  |
|--|-------------------------------|--|
| 9.1. Information on basic physical and chemical properties |                               |  |
| Physical state   | : Liquid                      |  |
| Color  | : No data available on colour |  |
| Odor   | : None                        |  |
| Odor threshold   | : No data available           |  |
| рН   | : No data available           |  |
| Melting point  | : Not applicable              |  |
| Freezing point   | : No data available           |  |
| Boiling point  | : No data available           |  |
| Flash point  | : No data available           |  |
| Relative evaporation rate (butyl acetate=1)                | : No data available           |  |
| Flammability (solid, gas)                                  | : Not applicable.             |  |
| Vapor pressure   | : No data available           |  |
| Relative vapor density at 20 °C                            | : No data available           |  |
| Relative density   | : No data available           |  |
| Solubility   | : Soluble in water.           |  |
| Partition coefficient n-octanol/water (Log Pow)            | : No data available           |  |
| Auto-ignition temperature                                  | : No data available           |  |
| Decomposition temperature                                  | : No data available           |  |
| Viscosity, kinematic                                       | : No data available           |  |
| Viscosity, dynamic   | : No data available           |  |
| Explosion limits   | : No data available           |  |
| Explosive properties                                       | : No data available           |  |
| Oxidizing properties                                       | : No data available           |  |

No additional information available

| SECTI    | ON 10: Stability and reactivity   |
|----------|---|
| 10.1.    | Reactivity  |
| The proc | luct is non-reactive under normal conditions of use, storage and transport. |
| 10.2.    | Chemical stability  |
| Stable u | nder normal conditions.   |

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 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 | 5                   |  |  |  |
| Acute toxicity (oral)                      | : Not classified    |  |  |  |
| Acute toxicity (dermal)                    | : Not classified    |  |  |  |
| Acute toxicity (inhalation)                | : Not classified    |  |  |  |
| Skin corrosion/irritation                  | : Not classified    |  |  |  |
| Serious eye damage/irritation              | : Not classified    |  |  |  |
| Respiratory or skin sensitization          | : Not classified    |  |  |  |
| Germ cell mutagenicity                     | : Not classified    |  |  |  |
| Carcinogenicity                            | : Not classified    |  |  |  |
| Reproductive toxicity                      | : Not classified    |  |  |  |
| STOT-single exposure                       | : Not classified    |  |  |  |
| STOT-repeated exposure                     | : Not classified    |  |  |  |
| Aspiration hazard                          | : Not classified    |  |  |  |
| Viscosity, kinematic                       | : No data available |  |  |  |

| SECTION 12: Ecological information |                               |  |  |  |
|------------------------------------|-------------------------------|--|--|--|
| 12.1.                              | Toxicity                      |  |  |  |
| Ecology                            | - general                     | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |  |  |
| 12.2.                              | Persistence and degradability |  |  |  |
| No addi                            | tional information available  |  |  |  |
| 12.3.                              | Bioaccumulative potential     |  |  |  |
| No addi                            | tional information available  |  |  |  |
| 12.4.                              | Mobility in soil              |  |  |  |
| No addi                            | tional information available  |  |  |  |
| 12.5.                              | Other adverse effects         |  |  |  |
| No addi                            | tional information available  |  |  |  |

| <b>SECTION 13: Disposal consideration</b> | ns  |  |  |  |  |
|---|---|--|--|--|--|
| 13.1. Disposal methods                    |   |  |  |  |  |
| Waste treatment methods                   | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |  |  |  |  |
| SECTION 14: Transport information         |   |  |  |  |  |
| Department of Transportation (DOT)        |   |  |  |  |  |
| In accordance with DOT                    |   |  |  |  |  |

Not applicable

### **Transportation of Dangerous Goods**

Not applicable

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## Transport by sea

Not applicable

### Air transport

Not applicable

| SECTION 15: Regulatory information   |
|--|
| 15.1. US Federal regulations   |
| No additional information available  |
| 15.2. International regulations  |
| CANADA No additional information available EU-Regulations No additional information available National regulations No additional information available |
| 15.3. US State regulations   |
| No additional information available  |
| SECTION 16: Other information  |

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Revision date

: 03/21/2022

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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**SECTION 1: Identification** Identification 1.1. Product form : Mixture Product name : Tartaric Acid Assay Kit (Bottle 1) Product code : K-TART (Bottle 1) Recommended use and restrictions on use 1.2. Use of the substance/mixture : Use as laboratory reagent 1.3. **Supplier** Megazyme Bray Business Park Bray, A98 YV29 - Ireland T +353 12861220 - F +353 12861264 cs@megazyme.com - www.megazyme.com 1.4. **Emergency telephone number** Emergency number : +353 12861220 [9 am to 5 pm GMT - Monday to Friday] SECTION 2: Hazard(s) identification Classification of the substance or mixture 2.1. **GHS US classification** Hazardous to the aquatic environment - Acute Hazard Harmful to aquatic life Category 3 GHS Label elements, including precautionary statements 2.2. **GHS US labeling** Hazard statements (GHS US) : Harmful to aquatic life Precautionary statements (GHS US) Avoid release to the environment. Dispose of contents/container to 2.3. Other hazards which do not result in classification No additional information available 2.4. Unknown acute toxicity (GHS US) Not applicable **SECTION 3: Composition/Information on ingredients** 3.1. **Substances** Not applicable 3.2. **Mixtures** This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012 SECTION 4: First-aid measures 4.1. Description of first aid measures

| First-aid measures after inhalation     | : Remove person to fresh air and keep comfortable for breathing. |
|---|--|
| First-aid measures after skin contact   | : Wash skin with plenty of water.                                |
| First-aid measures after eye contact    | : Rinse eyes with water as a precaution.                         |
| First-aid measures after ingestion      | : Call a poison center/doctor/physician if you feel unwell.      |
| 4.2. Most important symptoms and effect | cts (acute and delayed)  |

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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| <b>SECTION 5: Fire-fight</b>  | ing measures  |   |                                 |                            |
|---|---|---|---------------------------------|----------------------------|
| 5.1. Suitable (and unsuitable) extinguishing media                            |   |   |                                 |                            |
| Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. |   |   |                                 |                            |
| 5.2. Specific hazards a   | arising from the chemical   |   |                                 |                            |
| Hazardous decomposition pr  | oducts in case of : Toxic f   | fumes may be released.  |                                 |                            |
| 5.3. Special protective   | equipment and precautions   | s for fire-fighters   |                                 |                            |
| Protection during firefighting  |   | attempt to take action without atus. Complete protective cloth  |                                 | . Self-contained breathing |
| <b>SECTION 6: Accident</b>  | al release measures   |   |                                 |                            |
| 6.1. Personal precauti  | ons, protective equipment a   | nd emergency procedures   |                                 |                            |
| 6.1.1. For non-emergen  | cy personnel  |   |                                 |                            |
| Emergency procedures  |   | ate spillage area.  |                                 |                            |
| 6.1.2. For emergency re   | sponders  |   |                                 |                            |
| Protective equipment  |   | attempt to take action without<br>section 8: "Exposure controls |                                 | . For further information  |
| 6.2. Environmental pro  | ecautions   |   |                                 |                            |
| Avoid release to the environm   | nent.   |   |                                 |                            |
| 6.3. Methods and mate   | erial for containment and cle   | aning up  |                                 |                            |
| For containment   | : Collec  | t spillage.   |                                 |                            |
| Methods for cleaning up   | : Take u  | ip liquid spill into absorbent ma                               | aterial.                        |                            |
| Other information   | : Dispos  | se of materials or solid residues                               | s at an authorized site.        |                            |
| 6.4. Reference to othe  | r sections  |   |                                 |                            |
| For further information refer t   | o section 13.   |   |                                 |                            |
| <b>SECTION 7: Handling</b>  | and storage   |   |                                 |                            |
| 7.1. Precautions for sa   | afe handling  |   |                                 |                            |
| Precautions for safe handling   | : Ensure  | e good ventilation of the work s                                | tation. Wear personal protectiv | ve equipment.              |
| Hygiene measures  | : Do not<br>produc  | t eat, drink or smoke when usir<br>ct.                          | ng this product. Always wash h  | ands after handling the    |
| 7.2. Conditions for sa  | fe storage, including any inc   | ompatibilities  |                                 |                            |
| Storage conditions  | : Store i   | n a well-ventilated place. Keep                                 | o cool.                         |                            |
| SECTION 8: Exposure   | e controls/personal pro   | otection  |                                 |                            |
| 8.1. Control paramete   | rs  |   |                                 |                            |
|   |   |   |                                 |                            |
| Tartaric Acid Assay Kit (B  | Sottle 1)   |   |                                 |                            |
| No additional information av  | vailable  |   |                                 |                            |
|   |   |   |                                 |                            |
| 8.2. Appropriate engin  | neering controls  |   |                                 |                            |
| Appropriate engineering cont  | Appropriate engineering controls : Ensure good ventilation of the work station. |   |                                 |                            |
| Environmental exposure cont   | trols : Avoid   | release to the environment.                                     |                                 |                            |
| 8.3. Individual protect   | ion measures/Personal prot  | ective equipment  |                                 |                            |
| Hand protection:  |   |   |                                 |                            |
| Protective gloves   |   |   |                                 |                            |
| Туре  | Material  | Permeation  | Thickness (mm)                  | Penetration                |
| Disposable gloves   | Nitrile rubber (NBR)  | 3 (> 60 minutes)  |                                 | 2 (< 1.5)                  |

### Eye protection:

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| Safety glasses |         |                   |
|----------------|---------|-------------------|
| Туре           | Use     | Characteristics   |
| Safety glasses | Droplet | With side shields |

### Skin and body protection:

Wear suitable protective clothing

| Туре     |  |
|----------|--|
| Lab coat |  |

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

| Device    | Filter type | Condition                       |
|-----------|-------------|---------------------------------|
| Dust mask | Туре Р1     | Protection for Liquid particles |

## Personal protective equipment symbol(s):



| SECTION 9: Physical and chemical properties     |                               |  |
|---|-------------------------------|--|
| 9.1. Information on basic physical and ch       | nemical properties            |  |
| Physical state                                  | : Liquid                      |  |
| Color   | : No data available on colour |  |
| Odor  | : None                        |  |
| Odor threshold                                  | : No data available           |  |
| рН  | : No data available           |  |
| Melting point                                   | : Not applicable              |  |
| Freezing point                                  | : No data available           |  |
| Boiling point                                   | : No data available           |  |
| Flash point                                     | : No data available           |  |
| Relative evaporation rate (butyl acetate=1)     | : No data available           |  |
| Flammability (solid, gas)                       | : Not applicable.             |  |
| Vapor pressure                                  | : No data available           |  |
| Relative vapor density at 20 °C                 | : No data available           |  |
| Relative density                                | : No data available           |  |
| Solubility                                      | : Soluble in water.           |  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available           |  |
| Auto-ignition temperature                       | : No data available           |  |
| Decomposition temperature                       | : No data available           |  |
| Viscosity, kinematic                            | : No data available           |  |
| Viscosity, dynamic                              | : No data available           |  |
| Explosion limits                                | : No data available           |  |
| Explosive properties                            | : No data available           |  |
| Oxidizing properties                            | : No data available           |  |
| 9.2. Other information                          |                               |  |

No additional information available

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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| 10.2. Chemical stability                  |  |
|---|--|
| Stable under normal conditions.           |  |
| 10.3. Possibility of hazardous react      | ions   |
| No dangerous reactions known under norr   | nal conditions of use.                                       |
| 10.4. Conditions to avoid                 |  |
| None under recommended storage and ha     | andling conditions (see section 7).                          |
| 10.5. Incompatible materials              |  |
| No additional information available       |  |
| 10.6. Hazardous decomposition pro         | oducts   |
| Under normal conditions of storage and us | se, hazardous decomposition products should not be produced. |
| SECTION 11: Toxicological info            | rmation  |
| 11.1. Information on toxicological e      |  |
| Acute toxicity (oral)                     | : Not classified   |
| Acute toxicity (dermal)                   | : Not classified   |
| Acute toxicity (inhalation)               | : Not classified   |
| Skin corrosion/irritation                 | : Not classified   |
| Serious eye damage/irritation             | : Not classified   |
| Respiratory or skin sensitization         | : Not classified   |
| Germ cell mutagenicity                    | : Not classified   |
| Carcinogenicity                           | : Not classified   |
| Reproductive toxicity                     | : Not classified   |
| STOT-single exposure                      | : Not classified   |
| STOT-repeated exposure                    | : Not classified   |
| Aspiration hazard                         | : Not classified   |

|                      |     | tot olubbilieu    |
|----------------------|-----|-------------------|
| Aspiration hazard    | : N | Not classified    |
| Viscosity, kinematic | : N | No data available |

| SECT    | ON 12: Ecological information |   |
|---------|-------------------------------|---|
| 12.1.   | Toxicity                      |   |
| Ecology | - general                     | : Harmful to aquatic life. Harmful to aquatic life with long lasting effects. |
| 12.2.   | Persistence and degradability |   |
| No addi | tional information available  |   |
| 12.3.   | Bioaccumulative potential     |   |
| No addi | tional information available  |   |
| 12.4.   | Mobility in soil              |   |
| No addi | tional information available  |   |
| 12.5.   | Other adverse effects         |   |
| No addi | tional information available  |   |

| SECTIO    | ON 13: Disposal consideration | S   |
|-----------|-------------------------------|---|
| 13.1.     | Disposal methods              |   |
| Waste tre | eatment methods               | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |

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#### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods** 

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

| SECTION 15: Regulatory information  |
|---|
| 15.1. US Federal regulations  |
| No additional information available   |
| 15.2. International regulations   |
| CANADA<br>No additional information available<br>EU-Regulations<br>No additional information available<br>National regulations<br>No additional information available |
| 15.3. US State regulations  |
| No additional information available   |
| SECTION 16: Other information   |

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