

# SAFETY DATA SHEET

RRHT pH Method Development Kit, 2.1mm ID, Part Number 5190-1432

## Section 1. Identification

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

### 1.1 Product identifier

**Product name** : RRHT pH Method Development Kit, 2.1mm ID, Part Number 5190-1432  
**Part no. (chemical kit)** : 5190-1432  
**Part no.** : Eclipse Plus C18 959741-902  
 SB-C18 827700-902  
 Extend-C18 727700-902

**Validation date** : 7/19/2022

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

**Material uses** : Analytical chemistry.  
 HPLC column  
 Solvent volume: < 10 mL  
 Eclipse Plus C18 2.1 x 50 mm, 1.8um, 600 bar  
 SB-C18 2.1 x 50 mm, 1.8um, 600 bar  
 Extend-C18 2.1 x 50 mm, 1.8um, 600 bar

### 1.3 Details of the supplier of the safety data sheet

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

### 1.4 Emergency telephone number

**In case of emergency** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

### 2.1 Classification of the substance or mixture

**OSHA/HCS status** : Eclipse Plus C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 SB-C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 Extend-C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

#### Eclipse Plus C18

H225 FLAMMABLE LIQUIDS - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### SB-C18

H225 FLAMMABLE LIQUIDS - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

## Section 2. Hazards identification

### Extend-C18

H225 FLAMMABLE LIQUIDS - Category 2  
 H319 EYE IRRITATION - Category 2A  
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### 2.2 GHS label elements

#### Hazard pictograms

: Eclipse Plus C18



SB-C18



Extend-C18



#### Signal word

: Eclipse Plus C18  
 SB-C18  
 Extend-C18

Danger  
 Danger  
 Danger

#### Hazard statements

: Eclipse Plus C18

H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

SB-C18  
 H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

Extend-C18  
 H225 - Highly flammable liquid and vapor.  
 H319 - Causes serious eye irritation.  
 H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

### Precautionary statements

#### Prevention

: Eclipse Plus C18

P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
 P242 - Use non-sparking tools.  
 P243 - Take action to prevent static discharges.  
 P233 - Keep container tightly closed.  
 P260 - Do not breathe vapor.

SB-C18  
 P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P241 - Use explosion-proof electrical, ventilating or lighting equipment.  
 P242 - Use non-sparking tools.

## Section 2. Hazards identification

|                                    |                    |  |
|------------------------------------|--------------------|--|
|                                    | Extend-C18         | <p>P243 - Take action to prevent static discharges.<br/> P233 - Keep container tightly closed.<br/> P260 - Do not breathe vapor.<br/> P280 - Wear eye or face protection.<br/> P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br/> P241 - Use explosion-proof electrical, ventilating or lighting equipment.<br/> P242 - Use non-sparking tools.<br/> P243 - Take action to prevent static discharges.<br/> P233 - Keep container tightly closed.<br/> P260 - Do not breathe vapor.</p> |
| <b>Response</b>                    | : Eclipse Plus C18 | <p>P314 - Get medical advice or attention if you feel unwell.<br/> P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P337 + P313 - If eye irritation persists: Get medical advice or attention.</p>   |
|                                    | SB-C18             | <p>P314 - Get medical advice or attention if you feel unwell.<br/> P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P337 + P313 - If eye irritation persists: Get medical advice or attention.</p>   |
|                                    | Extend-C18         | <p>P314 - Get medical advice or attention if you feel unwell.<br/> P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P337 + P313 - If eye irritation persists: Get medical advice or attention.</p>   |
| <b>Storage</b>                     | : Eclipse Plus C18 | <p>P403 + P235 - Store in a well-ventilated place. Keep cool.</p>  |
|                                    | SB-C18             | <p>P403 + P235 - Store in a well-ventilated place. Keep cool.</p>  |
|                                    | Extend-C18         | <p>P403 + P235 - Store in a well-ventilated place. Keep cool.</p>  |
| <b>Disposal</b>                    | : Eclipse Plus C18 | <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>  |
|                                    | SB-C18             | <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>  |
|                                    | Extend-C18         | <p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>  |
| <b>Supplemental label elements</b> | : Eclipse Plus C18 | <p>None known.</p>   |
|                                    | SB-C18             | <p>None known.</p>   |
|                                    | Extend-C18         | <p>None known.</p>   |

### 2.3 Other hazards

## Section 2. Hazards identification

|   |  |   |
|---|--|---|
| <b>Hazards not otherwise classified</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | None known.<br>None known.<br>None known. |
|---|--|---|

## Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

|                          |  |   |
|--------------------------|--|---|
| <b>Substance/mixture</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Mixture (encapsulated in article)<br>Mixture (encapsulated in article)<br>Mixture (encapsulated in article) |
|--------------------------|--|---|

| Ingredient name                         | %         | CAS number |
|---|-----------|------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | ≥10 - <22 | 75-05-8    |
| <b>SB-C18</b><br>Acetonitrile           | ≥10 - <22 | 75-05-8    |
| <b>Extend-C18</b><br>Acetonitrile       | ≥10 - <22 | 75-05-8    |

Contains: Organosilane bonded silica gel

Note: To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

|                    |                    |   |
|--------------------|--------------------|---|
| <b>Eye contact</b> | : Eclipse Plus C18 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|                    | SB-C18             | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|                    | Extend-C18         | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |

## Section 4. First aid measures

|                     |                    |  |
|---------------------|--------------------|--|
| <b>Inhalation</b>   | : Eclipse Plus C18 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
|                     | SB-C18             | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
|                     | Extend-C18         | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| <b>Skin contact</b> | : Eclipse Plus C18 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
|                     | SB-C18             | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
|                     | Extend-C18         | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get   |

## Section 4. First aid measures

**Ingestion** : Eclipse Plus C18

medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SB-C18

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Extend-C18

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

**Eye contact** : Eclipse Plus C18  
SB-C18  
Extend-C18

Causes serious eye irritation.

Causes serious eye irritation.

Causes serious eye irritation.

**Inhalation** : Eclipse Plus C18  
SB-C18  
Extend-C18

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Skin contact** : Eclipse Plus C18  
SB-C18  
Extend-C18

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

## Section 4. First aid measures

|  |  |  |
|--|--|--|
| <b>Ingestion</b>                           | : Eclipse Plus C18<br>SB-C18<br>Extend-C18         | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.  |
| <b><u>Over-exposure signs/symptoms</u></b> |  |  |
| <b>Eye contact</b>                         | : Eclipse Plus C18<br><br>SB-C18<br><br>Extend-C18 | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness<br>Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness<br>Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>                          | : Eclipse Plus C18<br>SB-C18<br>Extend-C18         | No specific data.<br>No specific data.<br>No specific data.  |
| <b>Skin contact</b>                        | : Eclipse Plus C18<br>SB-C18<br>Extend-C18         | No specific data.<br>No specific data.<br>No specific data.  |
| <b>Ingestion</b>                           | : Eclipse Plus C18<br>SB-C18<br>Extend-C18         | No specific data.<br>No specific data.<br>No specific data.  |

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

|                                   |  |  |
|-----------------------------------|--|--|
| <b>Notes to physician</b>         | : Eclipse Plus C18<br><br>SB-C18<br><br>Extend-C18 | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.<br>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.<br>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.                |
| <b>Specific treatments</b>        | : Eclipse Plus C18<br>SB-C18<br>Extend-C18         | No specific treatment.<br>No specific treatment.<br>No specific treatment.   |
| <b>Protection of first-aiders</b> | : Eclipse Plus C18<br><br>SB-C18<br><br>Extend-C18 | No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.<br>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.<br>No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

See toxicological information (Section 11)



## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

|                                       |  |  |
|---------------------------------------|--|--|
| <b>Suitable extinguishing media</b>   | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.<br>Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.<br>Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. |
| <b>Unsuitable extinguishing media</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Do not use water jet.<br>Do not use water jet.<br>Do not use water jet.  |

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

|   |  |  |
|---|--|--|
| <b>Specific hazards arising from the chemical</b> | : Eclipse Plus C18<br><br>SB-C18<br><br>Extend-C18 | Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.<br>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.<br>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| <b>Hazardous thermal decomposition products</b>   | : Eclipse Plus C18<br><br>SB-C18<br><br>Extend-C18 | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides<br>cyanides<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides<br>cyanides<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>metal oxide/oxides<br>cyanides  |

### 5.3 Advice for firefighters

|   |                                  |   |
|---|----------------------------------|---|
| <b>Special protective actions for fire-fighters</b> | : Eclipse Plus C18<br><br>SB-C18 | 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.<br>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. Move containers from fire |
|---|----------------------------------|---|



## Section 5. Fire-fighting measures

|   |                    |   |
|---|--------------------|---|
|   | Extend-C18         | area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| <b>Special protective equipment for fire-fighters</b> | : Eclipse Plus C18 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.   |
|   | SB-C18             | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.   |
|   | Extend-C18         | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.   |

## Section 6. Accidental release measures

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

|                                    |                    |  |
|------------------------------------|--------------------|--|
| <b>For non-emergency personnel</b> | : Eclipse Plus C18 | 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|                                    | SB-C18             | 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|                                    | Extend-C18         | 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |

## Section 6. Accidental release measures

|  |                    |  |
|--|--------------------|--|
| <b>For emergency responders</b>                                  | : Eclipse Plus C18 | 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".  |
|  | SB-C18             | 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".  |
|  | Extend-C18         | 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>6.2 Environmental precautions</b>                             | : Eclipse Plus C18 | 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).  |
|  | SB-C18             | 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).  |
|  | Extend-C18         | 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>6.3 Methods and materials for containment and cleaning up</b> |                    |  |
| <b>Methods for cleaning up</b>                                   | : Eclipse Plus C18 | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. |
|  | SB-C18             | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. |
|  | Extend-C18         | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : Eclipse Plus C18

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

SB-C18

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Extend-C18

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eclipse Plus C18

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.

## Section 7. Handling and storage

SB-C18 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.

Extend-C18 Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

: Eclipse Plus C18

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

SB-C18

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

Extend-C18

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 7. Handling and storage

### 7.3 Specific end use(s)

|   |  |   |
|---|--|---|
| <b>Recommendations</b>                      | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Industrial applications, Professional applications.<br>Industrial applications, Professional applications.<br>Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.  |

## Section 8. Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

### 8.1 Control parameters

#### Occupational exposure limits

| Ingredient name                         | Exposure limits  |
|---|--|
| <b>Eclipse Plus C18</b><br>Acetonitrile | <b>ACGIH TLV (United States, 1/2021).</b><br><b>Absorbed through skin.</b><br>TWA: 20 ppm 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 40 ppm 8 hours.<br>TWA: 70 mg/m <sup>3</sup> 8 hours.<br>STEL: 60 ppm 15 minutes.<br>STEL: 105 mg/m <sup>3</sup> 15 minutes.<br><b>NIOSH REL (United States, 10/2020).</b><br>TWA: 20 ppm 10 hours.<br>TWA: 34 mg/m <sup>3</sup> 10 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 40 ppm 8 hours.<br>TWA: 70 mg/m <sup>3</sup> 8 hours. |
| <b>SB-C18</b><br>Acetonitrile           | <b>ACGIH TLV (United States, 1/2021).</b><br><b>Absorbed through skin.</b><br>TWA: 20 ppm 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 40 ppm 8 hours.<br>TWA: 70 mg/m <sup>3</sup> 8 hours.<br>STEL: 60 ppm 15 minutes.<br>STEL: 105 mg/m <sup>3</sup> 15 minutes.<br><b>NIOSH REL (United States, 10/2020).</b><br>TWA: 20 ppm 10 hours.<br>TWA: 34 mg/m <sup>3</sup> 10 hours.<br><b>OSHA PEL (United States, 5/2018).</b><br>TWA: 40 ppm 8 hours.<br>TWA: 70 mg/m <sup>3</sup> 8 hours. |
| <b>Extend-C18</b><br>Acetonitrile       | <b>ACGIH TLV (United States, 1/2021).</b><br><b>Absorbed through skin.</b><br>TWA: 20 ppm 8 hours.<br><b>OSHA PEL 1989 (United States, 3/1989).</b><br>TWA: 40 ppm 8 hours.<br>TWA: 70 mg/m <sup>3</sup> 8 hours.<br>STEL: 60 ppm 15 minutes.<br>STEL: 105 mg/m <sup>3</sup> 15 minutes.<br><b>NIOSH REL (United States, 10/2020).</b>   |

## Section 8. Exposure controls/personal protection

TWA: 20 ppm 10 hours.  
 TWA: 34 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 5/2018).**  
 TWA: 40 ppm 8 hours.  
 TWA: 70 mg/m<sup>3</sup> 8 hours.

### 8.2 Exposure controls

#### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### 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: chemical splash goggles.

### 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

#### 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>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Solid. (containing flammable liquid)<br>Solid. (containing flammable liquid)<br>Solid. (containing flammable liquid)             |
| <b>Color</b>   | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Odor</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Odor threshold</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>pH</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Melting point/freezing point</b>                            | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Boiling point, initial boiling point, and boiling range</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Flash point</b>   | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Closed cup: -18 to 23°C (-0.4 to 73.4°F)<br>Closed cup: -18 to 23°C (-0.4 to 73.4°F)<br>Closed cup: -18 to 23°C (-0.4 to 73.4°F) |
| <b>Evaporation rate</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Flammability</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Contains: Flammable liquid<br>Contains: Flammable liquid<br>Contains: Flammable liquid   |
| <b>Lower and upper explosion limit/flammability limit</b>      | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |
| <b>Vapor pressure</b>  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Not available.<br>Not available.<br>Not available.   |

| Ingredient name         | Vapor Pressure at 20°C |     |        | Vapor pressure at 50°C |      |        |
|-------------------------|------------------------|-----|--------|------------------------|------|--------|
|                         | mm Hg                  | kPa | Method | mm Hg                  | kPa  | Method |
| <b>Eclipse Plus C18</b> |                        |     |        |                        |      |        |
| Acetonitrile            | 70.89                  | 9.5 |        |                        |      |        |
| water                   | 23.8                   | 3.2 |        | 92.258                 | 12.3 |        |
| <b>SB-C18</b>           |                        |     |        |                        |      |        |
| Acetonitrile            | 70.89                  | 9.5 |        |                        |      |        |
| water                   | 23.8                   | 3.2 |        | 92.258                 | 12.3 |        |
| <b>Extend-C18</b>       |                        |     |        |                        |      |        |



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

|              |       |     |  |        |      |
|--------------|-------|-----|--|--------|------|
| Acetonitrile | 70.89 | 9.5 |  |        |      |
| water        | 23.8  | 3.2 |  | 92.258 | 12.3 |

|   |   |                  |  |
|---|---|------------------|--|
| <b>Relative vapor density</b>                 | : | Eclipse Plus C18 | Not available.                                       |
|   |   | SB-C18           | Not available.                                       |
|   |   | Extend-C18       | Not available.                                       |
| <b>Relative density</b>                       | : | Eclipse Plus C18 | Not available.                                       |
|   |   | SB-C18           | Not available.                                       |
|   |   | Extend-C18       | Not available.                                       |
| <b>Solubility</b>                             | : | Eclipse Plus C18 | Mobile phase: Soluble<br>Stationary phase: Insoluble |
|   |   | SB-C18           | Mobile phase: Soluble<br>Stationary phase: Insoluble |
|   |   | Extend-C18       | Mobile phase: Soluble<br>Stationary phase: Insoluble |
| <b>Partition coefficient: n-octanol/water</b> | : | Eclipse Plus C18 | Not applicable.                                      |
|   |   | SB-C18           | Not applicable.                                      |
|   |   | Extend-C18       | Not applicable.                                      |
| <b>Auto-ignition temperature</b>              | : | Eclipse Plus C18 | Not available.                                       |
|   |   | SB-C18           | Not available.                                       |
|   |   | Extend-C18       | Not available.                                       |

| Ingredient name         | °C  | °F    | Method |
|-------------------------|-----|-------|--------|
| <b>Eclipse Plus C18</b> |     |       |        |
| Acetonitrile            | 524 | 975.2 |        |
| <b>SB-C18</b>           |     |       |        |
| Acetonitrile            | 524 | 975.2 |        |
| <b>Extend-C18</b>       |     |       |        |
| Acetonitrile            | 524 | 975.2 |        |

|                                  |   |                  |                |
|----------------------------------|---|------------------|----------------|
| <b>Decomposition temperature</b> | : | Eclipse Plus C18 | Not available. |
|                                  |   | SB-C18           | Not available. |
|                                  |   | Extend-C18       | Not available. |
| <b>Viscosity</b>                 | : | Eclipse Plus C18 | Not available. |
|                                  |   | SB-C18           | Not available. |
|                                  |   | Extend-C18       | Not available. |

### Particle characteristics

|                             |   |                  |                 |
|-----------------------------|---|------------------|-----------------|
| <b>Median particle size</b> | : | Eclipse Plus C18 | Not applicable. |
|                             |   | SB-C18           | Not applicable. |
|                             |   | Extend-C18       | Not applicable. |

## Section 10. Stability and reactivity

|                                |   |                  |  |
|--------------------------------|---|------------------|--|
| <b>10.1 Reactivity</b>         | : | Eclipse Plus C18 | No specific test data related to reactivity available for this product or its ingredients. |
|                                |   | SB-C18           | No specific test data related to reactivity available for this product or its ingredients. |
|                                |   | Extend-C18       | No specific test data related to reactivity available for this product or its ingredients. |
| <b>10.2 Chemical stability</b> | : | Eclipse Plus C18 | The product is stable.   |
|                                |   | SB-C18           | The product is stable.   |
|                                |   | Extend-C18       | The product is stable.   |

## Section 10. Stability and reactivity

|  |                    |   |
|--|--------------------|---|
| <b>10.3 Possibility of hazardous reactions</b> | : Eclipse Plus C18 | Under normal conditions of storage and use, hazardous reactions will not occur.   |
|  | SB-C18             | Under normal conditions of storage and use, hazardous reactions will not occur.   |
|  | Extend-C18         | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : Eclipse Plus C18 | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
|  | SB-C18             | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
|  | Extend-C18         | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>10.5 Incompatible materials</b>             | : Eclipse Plus C18 | Reactive or incompatible with the following materials:<br>oxidizing materials<br>hydrogen fluoride  |
|  | SB-C18             | Reactive or incompatible with the following materials:<br>oxidizing materials<br>hydrogen fluoride  |
|  | Extend-C18         | Reactive or incompatible with the following materials:<br>oxidizing materials<br>hydrogen fluoride  |
| <b>10.6 Hazardous decomposition products</b>   | : Eclipse Plus C18 | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |
|  | SB-C18             | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |
|  | Extend-C18         | 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

| Product/ingredient name                 | Result                             | Species    | Dose                    | Exposure     |
|---|------------------------------------|------------|-------------------------|--------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | LC50 Inhalation Vapor<br>LD50 Oral | Rat<br>Rat | 17100 ppm<br>2460 mg/kg | 4 hours<br>- |
| <b>SB-C18</b><br>Acetonitrile           | LC50 Inhalation Vapor<br>LD50 Oral | Rat<br>Rat | 17100 ppm<br>2460 mg/kg | 4 hours<br>- |
| <b>Extend-C18</b><br>Acetonitrile       | LC50 Inhalation Vapor              | Rat        | 17100 ppm               | 4 hours      |

## Section 11. Toxicological information

|  |           |     |            |   |
|--|-----------|-----|------------|---|
|  | LD50 Oral | Rat | 2460 mg/kg | - |
|--|-----------|-----|------------|---|

### Irritation/Corrosion

| Product/ingredient name                 | Result                   | Species | Score | Exposure                     | Observation |
|---|--------------------------|---------|-------|------------------------------|-------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100<br>uL<br>500 mg | -           |
|   | Skin - Mild irritant     | Rabbit  | -     |                              | -           |
| <b>SB-C18</b><br>Acetonitrile           | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100<br>uL<br>500 mg | -           |
|   | Skin - Mild irritant     | Rabbit  | -     |                              | -           |
| <b>Extend-C18</b><br>Acetonitrile       | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100<br>uL<br>500 mg | -           |
|   | Skin - Mild irritant     | Rabbit  | -     |                              | -           |

### 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)

| Name                                    | Category   | Route of exposure | Target organs   |
|---|------------|-------------------|---|
| <b>Eclipse Plus C18</b><br>Acetonitrile | Category 2 | -                 | blood system,<br>central nervous<br>system (CNS),<br>kidneys, liver |
| <b>SB-C18</b><br>Acetonitrile           | Category 2 | -                 | blood system,<br>central nervous<br>system (CNS),<br>kidneys, liver |
| <b>Extend-C18</b><br>Acetonitrile       | Category 2 | -                 | blood system,<br>central nervous<br>system (CNS),<br>kidneys, liver |

### Aspiration hazard

Not available.

## Section 11. Toxicological information

|   |  |   |
|---|--|---|
| <b>Information on the likely routes of exposure</b> | : Eclipse Plus C18                         | Routes of entry anticipated: Oral, Dermal, Inhalation.  |
|   | SB-C18                                     | Routes of entry anticipated: Oral, Dermal, Inhalation.  |
|   | Extend-C18                                 | Routes of entry anticipated: Oral, Dermal, Inhalation.  |
| <b><u>Potential acute health effects</u></b>        |  |   |
| <b>Eye contact</b>                                  | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | Causes serious eye irritation.<br>Causes serious eye irritation.<br>Causes serious eye irritation.  |
| <b>Inhalation</b>                                   | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b>                                 | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>                                    | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

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

|                     |  |  |
|---------------------|--|--|
| <b>Eye contact</b>  | : Eclipse Plus C18                         | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
|                     | SB-C18                                     | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
|                     | Extend-C18                                 | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| <b>Inhalation</b>   | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No specific data.<br>No specific data.<br>No specific data.                              |
| <b>Skin contact</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No specific data.<br>No specific data.<br>No specific data.                              |
| <b>Ingestion</b>    | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No specific data.<br>No specific data.<br>No specific data.                              |

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

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Potential chronic health effects

## Section 11. Toxicological information

|                              |  |  |
|------------------------------|--|--|
| <b>General</b>               | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | May cause damage to organs through prolonged or repeated exposure.<br>May cause damage to organs through prolonged or repeated exposure.<br>May cause damage to organs through prolonged or repeated exposure. |
| <b>Carcinogenicity</b>       | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.  |
| <b>Mutagenicity</b>          | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.  |
| <b>Reproductive toxicity</b> | : Eclipse Plus C18<br>SB-C18<br>Extend-C18 | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.  |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                                     | Oral (mg/kg)  | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---------------|----------------|--------------------------|----------------------------|-------------------------------------|
| <b>Eclipse Plus C18</b><br>Eclipse Plus C18<br>Acetonitrile | 2463.1<br>500 | 5418.7<br>1100 | N/A<br>N/A               | 54.2<br>11                 | N/A<br>N/A                          |
| <b>SB-C18</b><br>SB-C18<br>Acetonitrile                     | 2463.1<br>500 | 5418.7<br>1100 | N/A<br>N/A               | 54.2<br>11                 | N/A<br>N/A                          |
| <b>Extend-C18</b><br>Extend-C18<br>Acetonitrile             | 2463.1<br>500 | 5418.7<br>1100 | N/A<br>N/A               | 54.2<br>11                 | N/A<br>N/A                          |

## Section 12. Ecological information

### 12.1 Toxicity

| Product/ingredient name                 | Result   | Species  | Exposure  |
|---|--|--|---|
| <b>Eclipse Plus C18</b><br>Acetonitrile | Acute IC50 3685000 µg/l Fresh water<br>Acute LC50 3600000 µg/l Fresh water<br>Acute LC50 1000000 µg/l Fresh water<br>Chronic NOEC 1000000 µg/l Fresh water<br>Chronic NOEC 160000 µg/l Fresh water | Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna<br>Fish - Pimephales promelas<br>Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna | 96 hours<br>48 hours<br>96 hours<br>96 hours<br>21 days |
| <b>SB-C18</b><br>Acetonitrile           | Acute IC50 3685000 µg/l Fresh water<br>Acute LC50 3600000 µg/l Fresh water<br>Acute LC50 1000000 µg/l Fresh water<br>Chronic NOEC 1000000 µg/l Fresh water<br>Chronic NOEC 160000 µg/l Fresh water | Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna<br>Fish - Pimephales promelas<br>Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna | 96 hours<br>48 hours<br>96 hours<br>96 hours<br>21 days |
| <b>Extend-C18</b><br>Acetonitrile       | Acute IC50 3685000 µg/l Fresh water  | Aquatic plants - Lemna minor   | 96 hours  |

## Section 12. Ecological information

|  |   |  |   |
|--|---|--|---|
|  | Acute LC50 3600000 µg/l Fresh water<br>Acute LC50 1000000 µg/l Fresh water<br>Chronic NOEC 1000000 µg/l Fresh water<br>Chronic NOEC 160000 µg/l Fresh water | Daphnia - Daphnia magna<br>Fish - Pimephales promelas<br>Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna | 48 hours<br>96 hours<br>96 hours<br>21 days |
|--|---|--|---|

### 12.2 Persistence and degradability

| Product/ingredient name                 | Test  | Result                   | Dose | Inoculum         |
|---|---|--------------------------|------|------------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | OECD 310<br>Ready<br>Biodegradability -<br>CO <sub>2</sub> in Sealed<br>Vessels<br>(Headspace Test) | 70 % - Readily - 21 days | -    | Activated sludge |
| <b>SB-C18</b><br>Acetonitrile           | OECD 310<br>Ready<br>Biodegradability -<br>CO <sub>2</sub> in Sealed<br>Vessels<br>(Headspace Test) | 70 % - Readily - 21 days | -    | Activated sludge |
| <b>Extend-C18</b><br>Acetonitrile       | OECD 310<br>Ready<br>Biodegradability -<br>CO <sub>2</sub> in Sealed<br>Vessels<br>(Headspace Test) | 70 % - Readily - 21 days | -    | Activated sludge |

| Product/ingredient name                 | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | -                 | -          | Readily          |
| <b>SB-C18</b><br>Acetonitrile           | -                 | -          | Readily          |
| <b>Extend-C18</b><br>Acetonitrile       | -                 | -          | Readily          |

### 12.3 Bioaccumulative potential

| Product/ingredient name                 | LogP <sub>ow</sub> | BCF | Potential |
|---|--------------------|-----|-----------|
| <b>Eclipse Plus C18</b><br>Acetonitrile | -0.34              | 3   | low       |
| <b>SB-C18</b><br>Acetonitrile           | -0.34              | 3   | low       |
| <b>Extend-C18</b><br>Acetonitrile       | -0.34              | 3   | low       |

### 12.4 Mobility in soil

## Section 12. Ecological information

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### United States - RCRA Toxic hazardous waste "U" List

| Ingredient                                    | CAS #   | Status | Reference number |
|---|---------|--------|------------------|
| <b>Eclipse Plus C18</b><br>Acetonitrile (I,T) | 75-05-8 | Listed | U003             |
| <b>SB-C18</b><br>Acetonitrile (I,T)           | 75-05-8 | Listed | U003             |
| <b>Extend-C18</b><br>Acetonitrile (I,T)       | 75-05-8 | Listed | U003             |

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## Section 14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

**DOT / TDG / Mexico / IMDG /** : Not regulated.

**IATA**

Additional information



## Section 14. Transport information

**Remarks** : Special provisions

DOT: 47

TDG: 56

MX: 216

IATA: A46

IMDG: 216

**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

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

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** Acetonitrile  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**Clean Water Act (CWA) 307:** Acetonitrile

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

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

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

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

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

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Eclipse Plus C18  
 SB-C18  
 Extend-C18

FLAMMABLE LIQUIDS - Category 2  
 EYE IRRITATION - Category 2A  
 FLAMMABLE LIQUIDS - Category 2  
 EYE IRRITATION - Category 2A  
 FLAMMABLE LIQUIDS - Category 2  
 EYE IRRITATION - Category 2A

#### Composition/information on ingredients

| Name                           | %         | Classification  |
|--------------------------------|-----------|---|
| Eclipse Plus C18               |           |   |
| Organosilane bonded silica gel | ≥50 - ≤75 | COMBUSTIBLE DUSTS   |
| Acetonitrile                   | ≥10 - <22 | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

## Section 15. Regulatory information

|   |                        |  |
|---|------------------------|--|
| <b>SB-C18</b><br>Organosilane bonded silica gel<br>Acetonitrile     | ≥50 - ≤75<br>≥10 - <22 | COMBUSTIBLE DUSTS<br>FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| <b>Extend-C18</b><br>Organosilane bonded silica gel<br>Acetonitrile | ≥50 - ≤75<br>≥10 - <22 | COMBUSTIBLE DUSTS<br>FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (oral) - Category 4<br>ACUTE TOXICITY (dermal) - Category 4<br>ACUTE TOXICITY (inhalation) - Category 4<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

### SARA 313

|  | Product name                            | CAS number | %         |
|--|---|------------|-----------|
| <b>Form R - Reporting requirements</b> | <b>Eclipse Plus C18</b><br>Acetonitrile | 75-05-8    | ≥10 - <22 |
|  | <b>SB-C18</b><br>Acetonitrile           | 75-05-8    | ≥10 - <22 |
|  | <b>Extend-C18</b><br>Acetonitrile       | 75-05-8    | ≥10 - <22 |
| <b>Supplier notification</b>           | <b>Eclipse Plus C18</b><br>Acetonitrile | 75-05-8    | ≥10 - <22 |
|  | <b>SB-C18</b><br>Acetonitrile           | 75-05-8    | ≥10 - <22 |
|  | <b>Extend-C18</b><br>Acetonitrile       | 75-05-8    | ≥10 - <22 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: ACETONITRILE
- New York** : The following components are listed: Acetonitrile; Ethanenitrile; Methyl cyanide
- New Jersey** : The following components are listed: ACETONITRILE; METHYL CYANIDE; CYANOMETHANE
- Pennsylvania** : The following components are listed: ACETONITRILE
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### 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)

## Section 15. Regulatory information

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [Inventory list](#)

|                          |  |
|--------------------------|--|
| <b>Australia</b>         | : All components are listed or exempted.   |
| <b>Canada</b>            | : <input checked="" type="checkbox"/> All components are listed or exempted.   |
| <b>China</b>             | : All components are listed or exempted.   |
| <b>Europe</b>            | : All components are listed or exempted.   |
| <b>Japan</b>             | : <b>Japan inventory (CSCL):</b> All components are listed or exempted.<br><b>Japan inventory (ISHL):</b> All components are listed or exempted. |
| <b>New Zealand</b>       | : All components are listed or exempted.   |
| <b>Philippines</b>       | : Not determined.  |
| <b>Republic of Korea</b> | : <input checked="" type="checkbox"/> All components are listed or exempted.   |
| <b>Taiwan</b>            | : All components are listed or exempted.   |
| <b>Thailand</b>          | : Not determined.  |
| <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>          | : Not determined.  |

## Section 16. Other information

### [Procedure used to derive the classification](#)

| Classification   | Justification   |
|--|---|
| <b>Eclipse Plus C18</b><br>FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | On basis of test data<br>Calculation method<br>Calculation method |
| <b>SB-C18</b><br>FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2           | On basis of test data<br>Calculation method<br>Calculation method |
| <b>Extend-C18</b><br>FLAMMABLE LIQUIDS - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2       | On basis of test data<br>Calculation method<br>Calculation method |

### [History](#)

|                               |              |
|-------------------------------|--------------|
| <b>Date of issue</b>          | : 07/19/2022 |
| <b>Date of previous issue</b> | : 06/25/2019 |
| <b>Version</b>                | : 4          |

### [Key to abbreviations](#)

|   |
|---|
| : ATE = Acute Toxicity Estimate   |
| : BCF = Bioconcentration Factor   |
| : GHS = Globally Harmonized System of Classification and Labelling of Chemicals   |
| : 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   |

## Section 16. Other information

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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