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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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

<table>
<thead>
<tr>
<th>CAS number</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Part no. (chemical kit): 5190-1432

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>959741-902</td>
<td>827700-902</td>
<td>727700-902</td>
</tr>
</tbody>
</table>

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

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS: pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): CHEMTREC®: +(44)-870-8200418

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

Product definition: Eclipse Plus C18 Mixture (encapsulated in article)
SB-C18 Mixture (encapsulated in article)
Extend-C18 Mixture (encapsulated in article)

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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

SECTION 2: Hazards identification

Eclipse Plus C18
H225  FLAMMABLE LIQUIDS  Category 2
H319  SERIOUS EYE DAMAGE/EYE IRRITATION  Category 2

SB-C18
H225  FLAMMABLE LIQUIDS  Category 2
H319  SERIOUS EYE DAMAGE/EYE IRRITATION  Category 2

Extend-C18
H225  FLAMMABLE LIQUIDS  Category 2
H319  SERIOUS EYE DAMAGE/EYE IRRITATION  Category 2

See Section 16 for the full text of the H statements declared above.
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements
Hazard pictograms : Eclipse Plus C18

SB-C18

Extend-C18

Signal word : Eclipse Plus C18  Danger
SB-C18  Danger
Extend-C18  Danger

H319 - Causes serious eye irritation.

SB-C18  H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.

Extend-C18  H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.

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.

SB-C18  P280 - Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Extend-C18  P280 - Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Eclipse Plus C18  P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.

SB-C18  P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 2: Hazards identification

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

- Eclipse Plus C18: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- SB-C18: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
- Extend-C18: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification:

- Eclipse Plus C18: None known.
- SB-C18: None known.
- Extend-C18: 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.

3.1 Substances:

- Eclipse Plus C18: Mixture (encapsulated in article)
- SB-C18: Mixture (encapsulated in article)
- Extend-C18: Mixture (encapsulated in article)
## SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Identifiers</th>
<th>%</th>
<th>Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Type</th>
</tr>
</thead>
</table>

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.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact**

- **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

**Inhalation**

<table>
<thead>
<tr>
<th>Compound</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>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 if adverse health effects persist or are severe. 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.</td>
</tr>
<tr>
<td>SB-C18</td>
<td>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 if adverse health effects persist or are severe. 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.</td>
</tr>
<tr>
<td>Extend-C18</td>
<td>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 if adverse health effects persist or are severe. 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.</td>
</tr>
</tbody>
</table>

**Skin contact**

<table>
<thead>
<tr>
<th>Compound</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
</tr>
<tr>
<td>SB-C18</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
</tr>
<tr>
<td>Extend-C18</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
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</tbody>
</table>

**Ingestion**

<table>
<thead>
<tr>
<th>Compound</th>
<th>First Aid Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>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 if adverse health effects persist or are severe. 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</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

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 if adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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.

Protection of first-aiders:
Eclipse Plus 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.
SB-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.
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Eclipse Plus C18</th>
<th>Causes serious eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-C18</td>
<td>Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td>Extend-C18</td>
<td>Causes serious eye irritation.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>Eclipse Plus C18</th>
<th>No known significant effects or critical hazards.</th>
</tr>
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<tbody>
<tr>
<td>SB-C18</td>
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<tr>
<td>Extend-C18</td>
<td>No known significant effects or critical hazards.</td>
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<table>
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<tr>
<td>Extend-C18</td>
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<tr>
<td>Extend-C18</td>
<td>No known significant effects or critical hazards.</td>
<td></td>
</tr>
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</table>

Over-exposure signs/symptoms

<table>
<thead>
<tr>
<th>Eye contact</th>
<th>Eclipse Plus C18</th>
<th>Adverse symptoms may include the following: pain or irritation watering redness</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB-C18</td>
<td>Adverse symptoms may include the following: pain or irritation watering redness</td>
<td></td>
</tr>
<tr>
<td>Extend-C18</td>
<td>Adverse symptoms may include the following: pain or irritation</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

Inhalation: Eclipse Plus C18  No specific data.  
          SB-C18       No specific data. 
          Extend-C18  No specific data. 

Skin contact: Eclipse Plus C18  No specific data. 
              SB-C18       No specific data. 
              Extend-C18  No specific data. 

Ingestion: Eclipse Plus C18  No specific data. 
           SB-C18       No specific data. 
           Extend-C18  No specific data. 

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Eclipse Plus 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. 
                      SB-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. 
                      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. 

                   SB-C18       No specific treatment. 
                   Extend-C18  No specific treatment. 

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Eclipse Plus C18  Use dry chemical, CO₂, water spray (fog) or foam. 
                                SB-C18       Use dry chemical, CO₂, water spray (fog) or foam. 
                                Extend-C18  Use dry chemical, CO₂, water spray (fog) or foam. 

Unsuitable extinguishing media: Eclipse Plus C18  Do not use water jet.  
                                SB-C18       Do not use water jet.  
                                Extend-C18  Do not use water jet.  

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Eclipse Plus C18  Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides, cyanides. 
                               SB-C18       Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides.
SECTION 5: Firefighting measures

5.3 Advice for firefighters

Special precautions for fire-fighters:

Eclipse Plus 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.

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.

Extend-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.

Special protective equipment for fire-fighters:

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
SECTION 6: Accidental release measures

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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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

SB-C18

Extend-C18

If specialised 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".

For emergency responders : Eclipse Plus C18
If specialised 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

Extend-C18

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Eclipse Plus C18
Avoid dispersal of spilt 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 spilt 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 spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.
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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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 ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

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Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

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
SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Storage

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 oxidising 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 unlabelled 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Seveso Directive - Reporting thresholds

<table>
<thead>
<tr>
<th>Category</th>
<th>Notification and MAPP threshold</th>
<th>Safety report threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18 P5c</td>
<td>5000 tonne</td>
<td>50000 tonne</td>
</tr>
<tr>
<td>SB-C18 P5c</td>
<td>5000 tonne</td>
<td>50000 tonne</td>
</tr>
<tr>
<td>Extend-C18 P5c</td>
<td>5000 tonne</td>
<td>50000 tonne</td>
</tr>
</tbody>
</table>

7.3 Specific end use(s)

Recommendations

Eclipse Plus C18 Industrial applications, Professional applications.
SB-C18 Industrial applications, Professional applications.
Extend-C18 Industrial applications, Professional applications.
SECTION 7: Handling and storage

Industrial sector specific solutions:
- Eclipse Plus C18: Not available.
- SB-C18: Not available.
- Extend-C18: 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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Exposure limit values</th>
</tr>
</thead>
</table>
| **Eclipse Plus C18**    | NAOS (Ireland, 1/2020). Absorbed through skin.  
                          | OELV-8hr: 40 ppm 8 hours.  
                          | OELV-8hr: 70 mg/m³ 8 hours. |
| **SB-C18**              | NAOS (Ireland, 1/2020). Absorbed through skin.  
                          | OELV-8hr: 40 ppm 8 hours.  
                          | OELV-8hr: 70 mg/m³ 8 hours. |
| **Extend-C18**          | NAOS (Ireland, 1/2020). Absorbed through skin.  
                          | OELV-8hr: 40 ppm 8 hours.  
                          | OELV-8hr: 70 mg/m³ 8 hours. |

Recommended monitoring procedures:
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Type</th>
<th>Exposure</th>
<th>Value</th>
<th>Population</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eclipse Plus C18</strong></td>
<td>DNEL</td>
<td>Short term Oral</td>
<td>0.6 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>22 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Dermal</td>
<td>32.2 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Long term Inhalation</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td></td>
<td>DNEL</td>
<td>Short term Inhalation</td>
<td>220 mg/m³</td>
<td>General</td>
<td>Systemic</td>
</tr>
</tbody>
</table>
SECTION 8: Exposure controls/personal protection

### SB-C18
**Acetonitrile**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>DNEL</th>
<th>Concentration</th>
<th>Population Type</th>
<th>Systemicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short term Oral</td>
<td>DNEL</td>
<td>0.6 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>22 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Dermal</td>
<td>DNEL</td>
<td>32.2 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>220 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

### Extend-C18
**Acetonitrile**

<table>
<thead>
<tr>
<th>Exposure Route</th>
<th>DNEL</th>
<th>Concentration</th>
<th>Population Type</th>
<th>Systemicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short term Oral</td>
<td>DNEL</td>
<td>0.6 mg/kg bw/day</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>4.8 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>22 mg/m³</td>
<td>General population</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Dermal</td>
<td>DNEL</td>
<td>32.2 mg/kg bw/day</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Local</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Long term Inhalation</td>
<td>DNEL</td>
<td>68 mg/m³</td>
<td>Workers</td>
<td>Systemic</td>
</tr>
<tr>
<td>Short term Inhalation</td>
<td>DNEL</td>
<td>220 mg/m³</td>
<td>General population</td>
<td>Systemic</td>
</tr>
</tbody>
</table>

**PNECs**

No PNECs available

### 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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.
SECTION 8: Exposure controls/personal protection

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid. (containing flammable liquid)</td>
<td>Solid. (containing flammable liquid)</td>
<td>Solid. (containing flammable liquid)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Colour</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not available.</td>
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</table>

<table>
<thead>
<tr>
<th>Odour</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Odour threshold</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Melting point/freezing point</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
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<td>Not available.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Initial boiling point and boiling range</th>
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<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability (solid, gas)</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contains: Flammable liquid</td>
<td>Contains: Flammable liquid</td>
<td>Contains: Flammable liquid</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 9: Physical and chemical properties

**Upper/lower flammability or explosive limits**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Flash point**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Auto-ignition temperature**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**pH**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Viscosity**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Partition coefficient: n-octanol/water**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Solubility(ies)**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Decomposition temperature**

<table>
<thead>
<tr>
<th>Method</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
</table>

**Ingredient name**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>°C</th>
<th>°F</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>524</td>
<td>975.2</td>
<td></td>
</tr>
</tbody>
</table>

**Vapour pressure**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Vapour Pressure at 20°C</th>
<th>Vapour pressure at 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetonitrile</td>
<td>mm Hg</td>
<td>kPa</td>
</tr>
<tr>
<td>water</td>
<td>70.89</td>
<td>9.5</td>
</tr>
</tbody>
</table>

| SB-C18          | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Acetonitrile    | 70.89 | 9.5 |         | 92.258 | 12.3 |
| water           | 23.8  | 3.2 |         | 92.258 | 12.3 |

| Extend-C18      | mm Hg | kPa | Method | mm Hg | kPa | Method |
| Acetonitrile    | 70.89 | 9.5 |         | 92.258 | 12.3 |
SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Eclipse Plus C18</th>
<th>SB-C18</th>
<th>Extend-C18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative density</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not available.</td>
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<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median particle size</td>
<td>Not applicable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity
- 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.

10.2 Chemical stability
- Eclipse Plus C18: The product is stable.
- SB-C18: The product is stable.
- Extend-C18: The product is stable.

10.3 Possibility of hazardous reactions
- 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.

10.4 Conditions to avoid
- Eclipse Plus C18: Avoid all possible sources of ignition (spark or flame). Do not pressurise, 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 pressurise, 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
SECTION 10: Stability and reactivity

10.5 Incompatible materials
- Eclipse Plus C18: Reactive or incompatible with the following materials: oxidising materials, hydrogen fluoride
- SB-C18: Reactive or incompatible with the following materials: oxidising materials, hydrogen fluoride
- Extend-C18: Reactive or incompatible with the following materials: oxidising materials, hydrogen fluoride

10.6 Hazardous decomposition products
- 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

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18 Acetonitrile</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>17100 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2460 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>SB-C18 Acetonitrile</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>17100 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2460 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Extend-C18 Acetonitrile</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>17100 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2460 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Acute toxicity estimates

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>2463.1</td>
<td>5418.7</td>
<td>N/A</td>
<td>54.2</td>
<td>N/A</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>500</td>
<td>1100</td>
<td>N/A</td>
<td>11</td>
<td>N/A</td>
</tr>
<tr>
<td>SB-C18</td>
<td>2463.1</td>
<td>5418.7</td>
<td>N/A</td>
<td>54.2</td>
<td>N/A</td>
</tr>
<tr>
<td>Acetonitrile</td>
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<td>1100</td>
<td>N/A</td>
<td>11</td>
<td>N/A</td>
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<tr>
<td>Extend-C18</td>
<td>2463.1</td>
<td>5418.7</td>
<td>N/A</td>
<td>54.2</td>
<td>N/A</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>500</td>
<td>1100</td>
<td>N/A</td>
<td>11</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

Date of issue/Date of revision: 19/07/2022  Date of previous issue: No previous validation  Version: 1
## SECTION 11: Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eclipse Plus C18</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 ul</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 mg</td>
<td>-</td>
</tr>
<tr>
<td><strong>SB-C18</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 ul</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 mg</td>
<td>-</td>
</tr>
<tr>
<td><strong>Extend-C18</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetonitrile</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 ul</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 mg</td>
<td>-</td>
</tr>
</tbody>
</table>

### Sensitiser

**Conclusion/Summary**: 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)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

**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.

### Potential acute health effects

#### Inhalation

**Eclipse Plus C18**
- No known significant effects or critical hazards.

**SB-C18**
- No known significant effects or critical hazards.

**Extend-C18**
- No known significant effects or critical hazards.

#### Ingestion

**Eclipse Plus C18**
- No known significant effects or critical hazards.

**SB-C18**
- No known significant effects or critical hazards.

**Extend-C18**
- No known significant effects or critical hazards.

#### Skin contact

**Eclipse Plus C18**
- No known significant effects or critical hazards.

**SB-C18**
- No known significant effects or critical hazards.

**Extend-C18**
- No known significant effects or critical hazards.

#### Eye contact

**Eclipse Plus C18**
- Causes serious eye irritation.

**SB-C18**
- Causes serious eye irritation.

**Extend-C18**
- Causes serious eye irritation.

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

#### Inhalation

**Eclipse Plus C18**
- No specific data.

**SB-C18**
- No specific data.

**Extend-C18**
- No specific data.
SECTION 11: Toxicological information

Ingestion: Eclipse Plus C18 No specific data. SB-C18 No specific data. Extend-C18 No specific data.

Skin contact: Eclipse Plus C18 No specific data. SB-C18 No specific data. Extend-C18 No specific data.

Eye contact: Eclipse Plus C18 Adverse symptoms may include the following: pain or irritation watering redness. SB-C18 Adverse symptoms may include the following: pain or irritation watering redness. Extend-C18 Adverse symptoms may include the following: pain or irritation watering redness.

SECTION 12: Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18 Acetonitrile</td>
<td>Acute IC50 3685000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3600000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1000000 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1000000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 160000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>21 days</td>
</tr>
<tr>
<td>SB-C18 Acetonitrile</td>
<td>Acute IC50 3685000 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3600000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

12.2 Persistence and degradability

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18 Acetonitrile</td>
<td>OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)</td>
<td>70% - Readily - 21 days</td>
<td>-</td>
<td>Activated sludge</td>
</tr>
<tr>
<td>SB-C18 Acetonitrile</td>
<td>OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)</td>
<td>70% - Readily - 21 days</td>
<td>-</td>
<td>Activated sludge</td>
</tr>
<tr>
<td>Extend-C18 Acetonitrile</td>
<td>OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)</td>
<td>70% - Readily - 21 days</td>
<td>-</td>
<td>Activated sludge</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18 Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>SB-C18 Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Extend-C18 Acetonitrile</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SB-C18</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extend-C18</td>
<td>-0.34</td>
<td>3</td>
<td>low</td>
</tr>
<tr>
<td>Acetonitrile</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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.
SECTION 14: Transport information

<table>
<thead>
<tr>
<th></th>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.2 UN proper shipping name</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>14.3 Transport hazard class(es)</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards</strong></td>
<td>No.</td>
<td>No.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**Additional information**

**Remarks** : Special provisions
ADR: 216
IATA: A46
IMDG: 216

**14.6 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.

**14.7 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**

**EU Regulation (EC) No. 1907/2006 (REACH)**

- **Annex XIV - List of substances subject to authorisation**
  - None of the components are listed.

- **Substances of very high concern**
  - None of the components are listed.

- **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**
  - Label: Eclipse Plus C18, SB-C18, Extend-C18
  - Not applicable.

**Other EU regulations**

- **Industrial emissions (integrated pollution prevention and control)**
  - **Air**: Listed

- **Industrial emissions (integrated pollution prevention and control)**
  - **Water**: Listed

- **Ozone depleting substances (1005/2009/EU)**

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**Version** : 1
SECTION 15: Regulatory information

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)
Not listed.

Persistent Organic Pollutants
Not listed.

Seveso Directive
This product is controlled under the Seveso Directive.

Danger criteria

<table>
<thead>
<tr>
<th>Category</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse Plus C18</td>
<td>P5c</td>
</tr>
<tr>
<td>SB-C18</td>
<td>P5c</td>
</tr>
<tr>
<td>Extend-C18</td>
<td>P5c</td>
</tr>
</tbody>
</table>

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list

- **Australia**: All components are listed or exempted.
- **Canada**: All components are listed or exempted.
- **China**: All components are listed or exempted.
- **Europe**: All components are listed or exempted.
- **Japan**:  
  - Japan inventory (CSCL): All components are listed or exempted.
  - Japan inventory (ISHL): All components are listed or exempted.
- **New Zealand**: All components are listed or exempted.
- **Philippines**: Not determined.
- **Republic of Korea**: All components are listed or exempted.
- **Taiwan**: All components are listed or exempted.
- **Thailand**: Not determined.
- **Turkey**: All components are listed or exempted.
- **United States**: All components are active or exempted.
- **Viet Nam**: Not determined.

15.2 Chemical safety assessment
This product contains substances for which Chemical Safety Assessments might still be required.
**SECTION 16: Other information**

- **Indicates information that has changed from previously issued version.**
- **Abbreviations and acronyms:**
  - ATE = Acute Toxicity Estimate
  - CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
  - DMEL = Derived Minimal Effect Level
  - DNEL = Derived No Effect Level
  - EUH statement = CLP-specific Hazard statement
  - N/A = Not available
  - PBT = Persistent, Bioaccumulative and Toxic
  - PNEC = Predicted No Effect Concentration
  - RRN = REACH Registration Number
  - vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eclipse Plus C18</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td><strong>SB-C18</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td><strong>Extend-C18</strong></td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 2, H225</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Irrit. 2, H319</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**Full text of abbreviated H statements**

**Eclipse Plus C18**
- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.

**SB-C18**
- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.

**Extend-C18**
- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.

**Full text of classifications [CLP/GHS]**

**Eclipse Plus C18**
- Acute Tox. 4
- Eye Irrit. 2
- Flam. Liq. 2
- ACUTE TOXICITY - Category 4
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- FLAMMABLE LIQUIDS - Category 2

**SB-C18**
- Acute Tox. 4
- Eye Irrit. 2
- Flam. Liq. 2
- ACUTE TOXICITY - Category 4
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- FLAMMABLE LIQUIDS - Category 2

**Extend-C18**
- Acute Tox. 4
- ACUTE TOXICITY - Category 4
SECTION 16: Other information

| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |

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Date of previous issue: No previous validation
Version: 1

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