

SAFETY DATA SHEET



RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

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 - 4.6mm ID, Part Number 5190-1434		
CAS number	: Eclipse Plus C18		Not applicable.
	: SB-C18		Not applicable.
	: Extend-C18		Not applicable.
Part no. (chemical kit)	: 5190-1434		
Part no.	: Eclipse Plus C18	959941-902	
	: SB-C18	827975-902	
	: Extend-C18	727975-902	

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	1.8 um, 4.6 x 50 mm 600 Bar	
	SB-C18	1.8 um, 4.6 x 50 mm 600 Bar	
	Extend-C18	1.8 um, 4.6 x 50 mm 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]

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

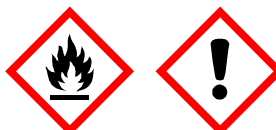
See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

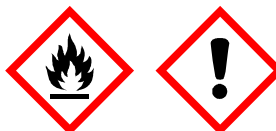
2.2 Label elements

Hazard pictograms

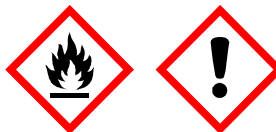
: Eclipse Plus C18



SB-C18



Extend-C18



Signal word

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

Hazard statements

: Eclipse Plus C18 H225 - Highly flammable liquid and vapour.
 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

	Extend-C18	P337 + P313 - If eye irritation persists: Get medical advice or attention. 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.
Storage	: Eclipse Plus C18 SB-C18 Extend-C18	Not applicable. Not applicable. Not applicable.
Disposal	: Eclipse Plus C18 SB-C18 Extend-C18	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Eclipse Plus C18 SB-C18 Extend-C18	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: Eclipse Plus C18 SB-C18 Extend-C18	Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Eclipse Plus C18 SB-C18 Extend-C18	Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: Eclipse Plus C18 SB-C18 Extend-C18	Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: Eclipse Plus C18 SB-C18 Extend-C18	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 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 SB-C18 Extend-C18	None known. None known. 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 SB-C18 Extend-C18	Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)
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RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Eclipse Plus C18 Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥10 - <25	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
SB-C18 Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥10 - <25	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
Extend-C18 Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥10 - <25	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 See Section 16 for the full text of the H statements declared above.	[1] [2]

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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[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	: 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 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.
	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 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.
	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 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.
Skin contact	: Eclipse Plus C18	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.
	SB-C18	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.
	Extend-C18	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.
Ingestion	: Eclipse Plus 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

SECTION 4: First aid measures

SB-C18	tight clothing such as a collar, tie, belt or waistband. 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

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.
Ingestion	: 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.

Over-exposure signs/symptoms

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

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 4: First aid measures

		watering redness
Inhalation	: Eclipse Plus C18 SB-C18 Extend-C18	No specific data. No specific data. No specific data.
Skin contact	: Eclipse Plus C18 SB-C18 Extend-C18	No specific data. No specific data. No specific data.
Ingestion	: Eclipse Plus C18 SB-C18 Extend-C18	No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Eclipse Plus C18 SB-C18 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. 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. 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.
Specific treatments	: Eclipse Plus C18 SB-C18 Extend-C18	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Eclipse Plus C18 SB-C18 Extend-C18	Highly flammable liquid and vapour. 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. Highly flammable liquid and vapour. 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. Highly flammable liquid and vapour. 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.
Hazardous combustion products	: Eclipse Plus C18 SB-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

SECTION 5: Firefighting measures

		metal oxide/oxides cyanides
	Extend-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides
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

SECTION 6: Accidental release measures

		Extend-C18	ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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.
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	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".
		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.

Extend-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.

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

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

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.
	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 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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Eclipse Plus C18 P5c	5000 tonne	50000 tonne
SB-C18 P5c	5000 tonne	50000 tonne
Extend-C18 P5c	5000 tonne	50000 tonne

7.3 Specific end use(s)

Recommendations	: Eclipse Plus C18 SB-C18 Extend-C18	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
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RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

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

Product/ingredient name	Exposure limit values
Eclipse Plus C18 Acetonitrile	NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 8 hours.
SB-C18 Acetonitrile	NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 8 hours.
Extend-C18 Acetonitrile	NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
Eclipse Plus C18 Acetonitrile	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	4.8 mg/m ³	General population	Local
	DNEL	Long term Inhalation	4.8 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	22 mg/m ³	General population	Local
	DNEL	Long term Dermal	32.2 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	68 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	68 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	68 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	68 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	68 mg/m ³	Workers	Systemic
	DNEL	Short term	220 mg/m ³	General	Systemic

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 8: Exposure controls/personal protection

		Inhalation		population		
SB-C18 Acetonitrile	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic	
	DNEL	Long term Inhalation	4.8 mg/m ³	General population	Local	
	DNEL	Long term Inhalation	4.8 mg/m ³	General population	Systemic	
	DNEL	Short term Inhalation	22 mg/m ³	General population	Local	
	DNEL	Long term Dermal	32.2 mg/kg bw/day	Workers	Systemic	
	DNEL	Short term Inhalation	68 mg/m ³	Workers	Local	
	DNEL	Long term Inhalation	68 mg/m ³	Workers	Local	
	DNEL	Short term Inhalation	68 mg/m ³	Workers	Systemic	
	DNEL	Long term Inhalation	68 mg/m ³	Workers	Systemic	
	DNEL	Short term Inhalation	220 mg/m ³	General population	Systemic	
	Extend-C18 Acetonitrile	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic
		DNEL	Long term Inhalation	4.8 mg/m ³	General population	Local
DNEL		Long term Inhalation	4.8 mg/m ³	General population	Systemic	
DNEL		Short term Inhalation	22 mg/m ³	General population	Local	
DNEL		Long term Dermal	32.2 mg/kg bw/day	Workers	Systemic	
DNEL		Short term Inhalation	68 mg/m ³	Workers	Local	
DNEL		Long term Inhalation	68 mg/m ³	Workers	Local	
DNEL		Short term Inhalation	68 mg/m ³	Workers	Systemic	
DNEL		Long term Inhalation	68 mg/m ³	Workers	Systemic	
DNEL		Short term Inhalation	220 mg/m ³	General population	Systemic	

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

Physical state	: Eclipse Plus C18 SB-C18 Extend-C18	Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid)
Colour	: Eclipse Plus C18 SB-C18 Extend-C18	Not available. Not available. Not available.
Odour	: Eclipse Plus C18 SB-C18 Extend-C18	Not available. Not available. Not available.
Odour threshold	: Eclipse Plus C18 SB-C18 Extend-C18	Not available. Not available. Not available.
Melting point/freezing point	: Eclipse Plus C18 SB-C18 Extend-C18	Not available. Not available. Not available.
Initial boiling point and boiling range	: Eclipse Plus C18 SB-C18 Extend-C18	Not available. Not available. Not available.
Flammability (solid, gas)	: Eclipse Plus C18 SB-C18 Extend-C18	Contains: Flammable liquid Contains: Flammable liquid Contains: Flammable liquid

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.
Flash point	: Eclipse Plus C18	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
	SB-C18	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
	Extend-C18	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
Auto-ignition temperature	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.

Ingredient name	°C	°F	Method
Eclipse Plus C18			
Acetonitrile	524	975.2	
SB-C18			
Acetonitrile	524	975.2	
Extend-C18			
Acetonitrile	524	975.2	

Decomposition temperature	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.
pH	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.
Viscosity	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.
Solubility(ies)	: Eclipse Plus C18	Mobile phase: Soluble Stationary phase: Insoluble
	SB-C18	Mobile phase: Soluble Stationary phase: Insoluble
	Extend-C18	Mobile phase: Soluble Stationary phase: Insoluble
Partition coefficient: n-octanol/water	: Eclipse Plus C18	Not applicable.
	SB-C18	Not applicable.
	Extend-C18	Not applicable.
Vapour pressure	: Eclipse Plus C18	Not available.
	SB-C18	Not available.
	Extend-C18	Not available.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Eclipse Plus C18						
Acetonitrile	70.89	9.5				
water	23.8	3.2		92.258	12.3	
SB-C18						
Acetonitrile	70.89	9.5				
water	23.8	3.2		92.258	12.3	
Extend-C18						
Acetonitrile	70.89	9.5				

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 9: Physical and chemical properties

	water	23.8	3.2		92.258	12.3	
Evaporation rate	: Eclipse Plus C18 SB-C18 Extend-C18		Not available. Not available. Not available.				
Relative density	: Eclipse Plus C18 SB-C18 Extend-C18		Not available. Not available. Not available.				
Vapour density	: Eclipse Plus C18 SB-C18 Extend-C18		Not available. Not available. Not available.				
Explosive properties	: Eclipse Plus C18 SB-C18 Extend-C18		Not available. Not available. Not available.				
Oxidising properties	: Eclipse Plus C18 SB-C18 Extend-C18		Not available. Not available. Not available.				
<u>Particle characteristics</u>							
Median particle size	: Eclipse Plus C18 SB-C18 Extend-C18		Not applicable. Not applicable. Not applicable.				

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Eclipse Plus C18 SB-C18 Extend-C18	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Eclipse Plus C18 SB-C18 Extend-C18	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Eclipse Plus C18 SB-C18 Extend-C18	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Eclipse Plus C18 SB-C18 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. 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. 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.

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Eclipse Plus C18 SB-C18 Extend-C18	Reactive or incompatible with the following materials: oxidising materials hydrogen fluoride Reactive or incompatible with the following materials: oxidising materials hydrogen fluoride Reactive or incompatible with the following materials: oxidising materials
10.6 Hazardous decomposition products	: Eclipse Plus C18 SB-C18 Extend-C18	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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
Eclipse Plus C18 Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
SB-C18 Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
Extend-C18 Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Eclipse Plus C18 Eclipse Plus C18 Acetonitrile	2590.7 500	5699.5 1100	N/A N/A	57 11	N/A N/A
SB-C18 SB-C18 Acetonitrile	2590.7 500	5699.5 1100	N/A N/A	57 11	N/A N/A
Extend-C18 Extend-C18 Acetonitrile	2590.7 500	5699.5 1100	N/A N/A	57 11	N/A N/A

Irritation/Corrosion

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

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 11: Toxicological information

Extend-C18 Acetonitrile	Skin - Mild irritant	Rabbit	-	500 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

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
SB-C18
Extend-C18

Routes of entry anticipated: Oral, Dermal, Inhalation.
Routes of entry anticipated: Oral, Dermal, Inhalation.
Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

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.

Ingestion

: 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.

Eye contact

: Eclipse Plus C18
SB-C18
Extend-C18

Causes serious eye irritation.
Causes serious eye irritation.
Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Eclipse Plus C18
SB-C18
Extend-C18

No specific data.
No specific data.
No specific data.

Ingestion

: Eclipse Plus C18
SB-C18
Extend-C18

No specific data.
No specific data.
No specific data.

Skin contact

: Eclipse Plus C18
SB-C18
Extend-C18

No specific data.
No specific data.
No specific data.

SECTION 11: Toxicological information

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

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: 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.
Carcinogenicity	: 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.
Mutagenicity	: 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.
Reproductive toxicity	: 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 12: Ecological information

12.1 Toxicity

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

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 12: Ecological information

Acetonitrile	Acute IC50 3685000 µg/l Fresh water Acute LC50 3600000 µg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic NOEC 1000000 µg/l Fresh water Chronic NOEC 160000 µg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna	96 hours 48 hours 96 hours 96 hours 21 days
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12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Eclipse Plus C18 Acetonitrile	-	-	Readily
SB-C18 Acetonitrile	-	-	Readily
Extend-C18 Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Eclipse Plus C18 Acetonitrile	-0.34	3	low
SB-C18 Acetonitrile	-0.34	3	low
Extend-C18 Acetonitrile	-0.34	3	low

12.4 Mobility in soil

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 12: Ecological information

Soil/water partition coefficient (K_{oc}) : 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.

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 14: Transport 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

Annex XIV

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	Not applicable.
	SB-C18	Not applicable.
	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)

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

SECTION 15: Regulatory information

Category

Eclipse Plus C18

P5c

SB-C18

P5c

Extend-C18

P5c

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

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 16: Other information

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Eclipse Plus C18 Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
SB-C18 Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
Extend-C18 Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method

[Full text of abbreviated H statements](#)

Eclipse Plus C18 H225 H302 H312 H319 H332	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.
SB-C18 H225 H302 H312 H319 H332	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.
Extend-C18 H225 H302 H312 H319 H332	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. 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 Eye Irrit. 2 Flam. Liq. 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2

Date of issue/ Date of revision : 19/07/2022

Date of previous issue : No previous validation

Version : 1

[Notice to reader](#)

RRHT pH Method Development Kit - 4.6mm ID, Part Number 5190-1434

SECTION 16: Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.