

SAFETY DATA SHEET



ZORBAX pH Method Development Kit, Part Number 5185-5807

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	: ZORBAX pH Method Development Kit, Part Number 5185-5807
Part no. (chemical kit)	: 5185-5807
Part no.	: SB-C18 Analytical HPLC 883975-902
	Eclipse XDB-C18 Analytical 993967-902
	Extend-C18 Analytical 773450-902

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

Identified uses	: Analytical chemistry.
	HPLC column
	Solvent volume: <10 ml
	SB-C18 Analytical HPLC 5 um, 4.6 x 150 mm
	Eclipse XDB-C18 Analytical 5 um, 4.6 x 150 mm
	Extend-C18 Analytical 5 um, 4.6 x 150 mm
Uses advised against	: None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
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	: SB-C18 Analytical HPLC Mixture (encapsulated in article)
	Eclipse XDB-C18 Mixture (encapsulated in article)
	Analytical
	Extend-C18 Analytical Mixture (encapsulated in article)

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

SB-C18 Analytical		
HPLC		
H225	FLAMMABLE LIQUIDS	Category 2
H302	ACUTE TOXICITY (oral)	Category 4
H312	ACUTE TOXICITY (dermal)	Category 4
H332	ACUTE TOXICITY (inhalation)	Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Category 1

SECTION 2: Hazards identification

Eclipse XDB-C18 Analytical		
H225	FLAMMABLE LIQUIDS	Category 2
H302	ACUTE TOXICITY (oral)	Category 4
H312	ACUTE TOXICITY (dermal)	Category 4
H332	ACUTE TOXICITY (inhalation)	Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Category 1
Extend-C18 Analytical		
H225	FLAMMABLE LIQUIDS	Category 2
H302	ACUTE TOXICITY (oral)	Category 4
H312	ACUTE TOXICITY (dermal)	Category 4
H332	ACUTE TOXICITY (inhalation)	Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Category 1
SB-C18 Analytical HPLC	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Eclipse XDB-C18 Analytical	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Extend-C18 Analytical	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
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	: SB-C18 Analytical HPLC	
	Eclipse XDB-C18 Analytical	
	Extend-C18 Analytical	
Signal word	: SB-C18 Analytical HPLC	Danger
	Eclipse XDB-C18 Analytical	Danger
	Extend-C18 Analytical	Danger
Hazard statements	: SB-C18 Analytical HPLC	H225 - Highly flammable liquid and vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
	Eclipse XDB-C18 Analytical	H225 - Highly flammable liquid and vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
	Extend-C18 Analytical	H225 - Highly flammable liquid and vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.

Precautionary statements

SECTION 2: Hazards identification

Prevention	: SB-C18 Analytical HPLC	P280 - Wear protective gloves and protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves and protective clothing.
	Eclipse XDB-C18 Analytical	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product.
	Extend-C18 Analytical	P280 - Wear protective gloves and protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product.
Response	: SB-C18 Analytical HPLC	P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
	Eclipse XDB-C18 Analytical	P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
	Extend-C18 Analytical	P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.
Storage	: SB-C18 Analytical HPLC	Not applicable.
	Eclipse XDB-C18 Analytical	Not applicable.
	Extend-C18 Analytical	Not applicable.
Disposal	: SB-C18 Analytical HPLC	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Eclipse XDB-C18 Analytical	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Extend-C18 Analytical	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: SB-C18 Analytical HPLC	methanol
	Eclipse XDB-C18 Analytical	methanol
	Extend-C18 Analytical	methanol
Supplemental label elements	: SB-C18 Analytical HPLC	Not applicable.
	Eclipse XDB-C18 Analytical	Not applicable.
	Extend-C18 Analytical	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: SB-C18 Analytical HPLC	Not applicable.
	Eclipse XDB-C18 Analytical	Not applicable.
	Extend-C18 Analytical	Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: SB-C18 Analytical HPLC	Not applicable.
	Eclipse XDB-C18 Analytical	Not applicable.
	Extend-C18 Analytical	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: SB-C18 Analytical HPLC	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Eclipse XDB-C18 Analytical	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	Extend-C18 Analytical	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 2: Hazards identification

Other hazards which do not result in classification	SB-C18 Analytical HPLC	None known.
	Eclipse XDB-C18	None known.
	Analytical	
	Extend-C18 Analytical	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	SB-C18 Analytical HPLC	Mixture (encapsulated in article)
	Eclipse XDB-C18 Analytical	Mixture (encapsulated in article)
	Extend-C18 Analytical	Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
SB-C18 Analytical HPLC methanol	EC: 200-659-6 CAS: 67-56-1	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10%	[1] [2]
Eclipse XDB-C18 Analytical methanol	EC: 200-659-6 CAS: 67-56-1	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve)	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10%	[1] [2]
Extend-C18 Analytical methanol	EC: 200-659-6 CAS: 67-56-1	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS), optic nerve) See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C ≥ 10% STOT SE 2, H371: 3% ≤ C < 10%	[1] [2]

SECTION 3: Composition/information on ingredients

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

SB-C18 Analytical HPLC	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit
Eclipse XDB-C18 Analytical	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit
Extend-C18 Analytical	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: SB-C18 Analytical HPLC	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. If necessary, call a poison center or physician.
	Eclipse XDB-C18 Analytical	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. If necessary, call a poison center or physician.
	Extend-C18 Analytical	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. If necessary, call a poison center or physician.
Inhalation	: SB-C18 Analytical HPLC	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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.
	Eclipse XDB-C18 Analytical	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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 Analytical	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide

SECTION 4: First aid measures**Skin contact**

: SB-C18 Analytical HPLC

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 necessary, call a poison center or physician. 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.

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eclipse XDB-C18 Analytical

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Extend-C18 Analytical

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: SB-C18 Analytical HPLC

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 necessary, call a poison center or physician. 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.

Eclipse XDB-C18 Analytical

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 necessary, call a poison center or physician. 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 Analytical

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 necessary, call a poison center or physician. 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.

SECTION 4: First aid measures

Protection of first-aiders	: SB-C18 Analytical HPLC	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Eclipse XDB-C18 Analytical	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Extend-C18 Analytical	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

Eye contact	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
Skin contact	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
Ingestion	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	No specific data. No specific data. No specific data.
Inhalation	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	No specific data. No specific data. No specific data.
Skin contact	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	No specific data. No specific data. No specific data.

SECTION 4: First aid measures

Ingestion	: SB-C18 Analytical HPLC	No specific data.
	Eclipse XDB-C18	No specific data.
	Analytical	
	Extend-C18 Analytical	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: SB-C18 Analytical HPLC	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Eclipse XDB-C18	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Analytical	
	Extend-C18 Analytical	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: SB-C18 Analytical HPLC	No specific treatment.
	Eclipse XDB-C18	No specific treatment.
	Analytical	
	Extend-C18 Analytical	No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

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

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-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.
	Analytical	
	Extend-C18 Analytical	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	: SB-C18 Analytical HPLC	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	Eclipse XDB-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	Analytical	
	Extend-C18 Analytical	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.

5.3 Advice for firefighters

SECTION 5: Firefighting measures

Special precautions for fire-fighters	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-C18 Analytical	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 Analytical	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	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-C18 Analytical	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 Analytical	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	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-C18 Analytical	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.
	Extend-C18 Analytical	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**For emergency responders**

: SB-C18 Analytical HPLC

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".

Eclipse XDB-C18 Analytical

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 Analytical

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

: SB-C18 Analytical HPLC

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).

Eclipse XDB-C18 Analytical

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 Analytical

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**

: SB-C18 Analytical HPLC

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.

Eclipse XDB-C18 Analytical

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 Analytical

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**

: SB-C18 Analytical HPLC

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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

SECTION 7: Handling and storage

		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. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
	Eclipse XDB-C18 Analytical	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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 Analytical	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-C18 Analytical	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 Analytical	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Storage	: SB-C18 Analytical HPLC	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. Store locked up. 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.
	Eclipse XDB-C18 Analytical	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. Store locked up. 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 Analytical	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. Store locked up. 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

Category	Notification and MAPP threshold	Safety report threshold
SB-C18 Analytical HPLC H3 P5c	50 tonne 5000 tonne	200 tonne 50000 tonne
Eclipse XDB-C18 Analytical H3 P5c	50 tonne 5000 tonne	200 tonne 50000 tonne
Extend-C18 Analytical H3 P5c	50 tonne 5000 tonne	200 tonne 50000 tonne

7.3 Specific end use(s)

Recommendations	: SB-C18 Analytical HPLC	Industrial applications, Professional applications.
	Eclipse XDB-C18 Analytical	Industrial applications, Professional applications.
	Extend-C18 Analytical	Industrial applications, Professional applications.

SECTION 7: Handling and storage

Industrial sector specific solutions	SB-C18 Analytical HPLC	Not available.
	Eclipse XDB-C18	Not available.
	Analytical	
	Extend-C18 Analytical	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
SB-C18 Analytical HPLC Methanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV: 200 ppm 8 hours. OELV: 260 mg/m³ 8 hours.
Eclipse XDB-C18 Analytical Methanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV: 200 ppm 8 hours. OELV: 260 mg/m³ 8 hours.
Extend-C18 Analytical Methanol	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV: 200 ppm 8 hours. OELV: 260 mg/m³ 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
SB-C18 Analytical HPLC Methanol	NAOSH (Ireland, 1/2011) BMGV: 15 mg/l, methanol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Eclipse XDB-C18 Analytical Methanol	NAOSH (Ireland, 1/2011) BMGV: 15 mg/l, methanol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
Extend-C18 Analytical Methanol	NAOSH (Ireland, 1/2011) BMGV: 15 mg/l, methanol [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.

Recommended monitoring procedures	: 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.
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SECTION 8: Exposure controls/personal protection**DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
SB-C18 Analytical HPLC Methanol	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	26 mg/m ³	General population	Local
	DNEL	Long term Inhalation	26 mg/m ³	General population	Local
	DNEL	Short term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m ³	Workers	Systemic
Eclipse XDB-C18 Analytical Methanol	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	26 mg/m ³	General population	Local
	DNEL	Long term Inhalation	26 mg/m ³	General population	Local
	DNEL	Short term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m ³	Workers	Systemic
Extend-C18 Analytical					

SECTION 8: Exposure controls/personal protection

Methanol	DNEL	Short term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	26 mg/m ³	General population	Local
	DNEL	Long term Inhalation	26 mg/m ³	General population	Local
	DNEL	Short term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	26 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	130 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	130 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	130 mg/m ³	Workers	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.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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.

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.

SECTION 8: Exposure controls/personal protection

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	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid)															
Colour	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Odour	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Odour threshold	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Melting point/freezing point	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Initial boiling point and boiling range	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Flammability	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Contains: Flammable liquid Contains: Flammable liquid Contains: Flammable liquid															
Upper/lower flammability or explosive limits	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Not available. Not available. Not available.															
Flash point	: SB-C18 Analytical HPLC Eclipse XDB-C18 Analytical Extend-C18 Analytical	Closed cup: -18 to 23°C [Based on solvent.] Closed cup: -18 to 23°C [Based on solvent.] Closed cup: -18 to 23°C [Based on solvent.]															
Auto-ignition temperature	: <table><thead><tr><th>Ingredient name</th><th>°C</th><th>Method</th></tr></thead><tbody><tr><td>SB-C18 Analytical HPLC</td><td></td><td></td></tr><tr><td>methanol</td><td>455</td><td>DIN 51794</td></tr><tr><td>Eclipse XDB-C18 Analytical</td><td></td><td></td></tr><tr><td>methanol</td><td>455</td><td>DIN 51794</td></tr></tbody></table>	Ingredient name	°C	Method	SB-C18 Analytical HPLC			methanol	455	DIN 51794	Eclipse XDB-C18 Analytical			methanol	455	DIN 51794	
Ingredient name	°C	Method															
SB-C18 Analytical HPLC																	
methanol	455	DIN 51794															
Eclipse XDB-C18 Analytical																	
methanol	455	DIN 51794															

SECTION 9: Physical and chemical properties

		Extend-C18 Analytical						
		methanol		455	DIN 51794			
Decomposition temperature	:	SB-C18 Analytical HPLC	Not available.					
		Eclipse XDB-C18	Not available.					
		Analytical						
		Extend-C18 Analytical	Not available.					
pH	:	SB-C18 Analytical HPLC	Not available.					
		Eclipse XDB-C18	Not available.					
		Analytical						
		Extend-C18 Analytical	Not available.					
Viscosity	:	SB-C18 Analytical HPLC	Not available.					
		Eclipse XDB-C18	Not available.					
		Analytical						
		Extend-C18 Analytical	Not available.					
Solubility(ies)	:	Media		Result				
		SB-C18 Analytical HPLC						
		Mobile phase		Soluble				
		Stationary phase		Insoluble				
		Eclipse XDB-C18 Analytical						
		Mobile phase		Soluble				
		Stationary phase		Insoluble				
		Extend-C18 Analytical						
		Mobile phase		Soluble				
		Stationary phase		Insoluble				
Partition coefficient: n-octanol/water	:	SB-C18 Analytical HPLC	Not applicable.					
		Eclipse XDB-C18	Not applicable.					
		Analytical						
		Extend-C18 Analytical	Not applicable.					
Vapour pressure	:		Vapour Pressure at 20°C	Vapour pressure at 50°C				
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		SB-C18 Analytical HPLC						
		methanol	126.96329	16.9	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-
		Eclipse XDB-C18 Analytical						
		methanol	126.96329	16.9	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-
		Extend-C18 Analytical						
		methanol	126.96329	16.9	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-
Evaporation rate	:	SB-C18 Analytical HPLC	Not available.					
		Eclipse XDB-C18	Not available.					
		Analytical						
		Extend-C18 Analytical	Not available.					

SECTION 9: Physical and chemical properties

Relative density	: SB-C18 Analytical HPLC	Not available.
	Eclipse XDB-C18	Not available.
	Analytical	
	Extend-C18 Analytical	Not available.
Vapour density	: SB-C18 Analytical HPLC	Not available.
	Eclipse XDB-C18	Not available.
	Analytical	
	Extend-C18 Analytical	Not available.
Explosive properties	: SB-C18 Analytical HPLC	Not available.
	Eclipse XDB-C18	Not available.
	Analytical	
	Extend-C18 Analytical	Not available.
Oxidising properties	: SB-C18 Analytical HPLC	Not available.
	Eclipse XDB-C18	Not available.
	Analytical	
	Extend-C18 Analytical	Not available.
<u>Particle characteristics</u>		
Median particle size	: SB-C18 Analytical HPLC	Not applicable.
	Eclipse XDB-C18	Not applicable.
	Analytical	
	Extend-C18 Analytical	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: SB-C18 Analytical HPLC	No specific test data related to reactivity available for this product or its ingredients.
	Eclipse XDB-C18	No specific test data related to reactivity available for this product or its ingredients.
	Analytical	No specific test data related to reactivity available for this product or its ingredients.
	Extend-C18 Analytical	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: SB-C18 Analytical HPLC	The product is stable.
	Eclipse XDB-C18	The product is stable.
	Analytical	
	Extend-C18 Analytical	The product is stable.
10.3 Possibility of hazardous reactions	: SB-C18 Analytical HPLC	Under normal conditions of storage and use, hazardous reactions will not occur.
	Eclipse XDB-C18	Under normal conditions of storage and use, hazardous reactions will not occur.
	Analytical	Under normal conditions of storage and use, hazardous reactions will not occur.
	Extend-C18 Analytical	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: SB-C18 Analytical HPLC	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.
	Eclipse XDB-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.
	Analytical	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 Analytical	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	: SB-C18 Analytical HPLC	Reactive or incompatible with the following materials: oxidising materials. Incompatible with hydrogen fluoride.
	Eclipse XDB-C18 Analytical	Reactive or incompatible with the following materials: oxidising materials. Incompatible with hydrogen fluoride.
	Extend-C18 Analytical	Reactive or incompatible with the following materials: oxidising materials. Incompatible with hydrogen fluoride.
10.6 Hazardous decomposition products	: SB-C18 Analytical HPLC	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Eclipse XDB-C18 Analytical	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Extend-C18 Analytical	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
SB-C18 Analytical HPLC Methanol	LC50 Inhalation Vapour	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Eclipse XDB-C18 Analytical Methanol	LC50 Inhalation Vapour	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Extend-C18 Analytical Methanol	LC50 Inhalation Vapour	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

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)
SB-C18 Analytical HPLC SB-C18 Analytical HPLC Methanol	367.6 100	1102.9 300	N/A N/A	11.0 3	N/A N/A
Eclipse XDB-C18 Analytical Eclipse XDB-C18 Analytical Methanol	367.6 100	1102.9 300	N/A N/A	11.0 3	N/A N/A
Extend-C18 Analytical Extend-C18 Analytical Methanol	367.6 100	1102.9 300	N/A N/A	11.0 3	N/A N/A

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
SB-C18 Analytical HPLC Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Eclipse XDB-C18 Analytical Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Extend-C18 Analytical Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 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)

Product/ingredient name	Category	Route of exposure	Target organs
SB-C18 Analytical HPLC Methanol	Category 1	-	central nervous system (CNS), optic nerve
Eclipse XDB-C18 Analytical Methanol	Category 1	-	central nervous system (CNS), optic nerve
Extend-C18 Analytical Methanol	Category 1	-	central nervous system (CNS), optic nerve

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: SB-C18 Analytical HPLC Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Eclipse XDB-C18 Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Analytical
Extend-C18 Analytical Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

SECTION 11: Toxicological informationPotential acute health effects

Inhalation	: SB-C18 Analytical HPLC	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
	Eclipse XDB-C18 Analytical	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
	Extend-C18 Analytical	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
Ingestion	: SB-C18 Analytical HPLC	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
	Eclipse XDB-C18 Analytical	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
	Extend-C18 Analytical	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
Skin contact	: SB-C18 Analytical HPLC	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
	Eclipse XDB-C18 Analytical	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
	Extend-C18 Analytical	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
Eye contact	: SB-C18 Analytical HPLC	No known significant effects or critical hazards.
	Eclipse XDB-C18 Analytical	No known significant effects or critical hazards.
	Extend-C18 Analytical	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: SB-C18 Analytical HPLC	No specific data.
	Eclipse XDB-C18 Analytical	No specific data.
	Extend-C18 Analytical	No specific data.
Ingestion	: SB-C18 Analytical HPLC	No specific data.
	Eclipse XDB-C18 Analytical	No specific data.
	Extend-C18 Analytical	No specific data.
Skin contact	: SB-C18 Analytical HPLC	No specific data.
	Eclipse XDB-C18 Analytical	No specific data.
	Extend-C18 Analytical	No specific data.
Eye contact	: SB-C18 Analytical HPLC	No specific data.
	Eclipse XDB-C18 Analytical	No specific data.
	Extend-C18 Analytical	No specific data.

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

Conclusion/Summary : Not available.

General	: SB-C18 Analytical HPLC	No known significant effects or critical hazards.
	Eclipse XDB-C18 Analytical	No known significant effects or critical hazards.
	Extend-C18 Analytical	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Carcinogenicity	SB-C18 Analytical HPLC	No known significant effects or critical hazards.
	Eclipse XDB-C18	No known significant effects or critical hazards.
	Analytical	
Mutagenicity	Extend-C18 Analytical	No known significant effects or critical hazards.
	SB-C18 Analytical HPLC	No known significant effects or critical hazards.
	Eclipse XDB-C18	No known significant effects or critical hazards.
Reproductive toxicity	Analytical	
	Extend-C18 Analytical	No known significant effects or critical hazards.
	SB-C18 Analytical HPLC	No known significant effects or critical hazards.
	Eclipse XDB-C18	No known significant effects or critical hazards.
	Analytical	
	Extend-C18 Analytical	No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

SB-C18 Analytical HPLC	Adverse symptoms may include the following: blurred or double vision,. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Narcotic effect. May cause nervous system disturbances.
Eclipse XDB-C18 Analytical	Adverse symptoms may include the following: blurred or double vision,. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Narcotic effect. May cause nervous system disturbances.
Extend-C18 Analytical	Adverse symptoms may include the following: blurred or double vision, Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Narcotic effect. May cause nervous system disturbances.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
SB-C18 Analytical HPLC Methanol	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
		- Adult	
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
Eclipse XDB-C18 Analytical Methanol	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
		- Adult	
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
Extend-C18 Analytical Methanol	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 2736 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i>	48 hours
		- Adult	
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - <i>Danio rerio</i> - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours

SECTION 12: Ecological information

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
SB-C18 Analytical HPLC Methanol	-	-	Readily
Eclipse XDB-C18 Analytical Methanol	-	-	Readily
Extend-C18 Analytical Methanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
SB-C18 Analytical HPLC Methanol	-0.77	<10	Low
Eclipse XDB-C18 Analytical Methanol	-0.77	<10	Low
Extend-C18 Analytical Methanol	-0.77	<10	Low

12.4 Mobility in soil

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 Endocrine disrupting properties

Not available.

12.7 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.

SECTION 13: Disposal considerations

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. 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 or ID 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

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

SECTION 15: Regulatory information

Product / Ingredient name	Identifiers	Designation [Usage]
SB-C18 Analytical HPLC SB-C18 Analytical HPLC Methanol		3 69
Eclipse XDB-C18 Analytical Eclipse XDB-C18 Analytical Methanol		3 69
Extend-C18 Analytical Extend-C18 Analytical Methanol		3 69

Label : SB-C18 Analytical HPLC Not applicable.
Eclipse XDB-C18 Analytical Not applicable.
Extend-C18 Analytical Not applicable.

Other EU regulations

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

Category
SB-C18 Analytical HPLC H3 P5c
Eclipse XDB-C18 Analytical H3 P5c
Extend-C18 Analytical H3 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.

SECTION 15: Regulatory information

China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: All components are listed or exempted.
Japan	: Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: All components are listed or exempted.
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
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
SB-C18 Analytical HPLC Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370	Expert judgment Calculation method Calculation method Calculation method Calculation method
Eclipse XDB-C18 Analytical Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370	Expert judgment Calculation method Calculation method Calculation method Calculation method
Extend-C18 Analytical Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370	Expert judgment Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

SB-C18 Analytical HPLC H225 H301 H302 H311 H312 H331 H332 H370	Highly flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Toxic if inhaled. Harmful if inhaled. Causes damage to organs.
Eclipse XDB-C18 Analytical H225 H301 H302 H311 H312 H331 H332 H370	Highly flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Toxic if inhaled. Harmful if inhaled. Causes damage to organs.
Extend-C18 Analytical H225 H301 H302 H311 H312 H331 H332 H370	Highly flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Toxic if inhaled. Harmful if inhaled. Causes damage to organs.

Full text of classifications [CLP/GHS]

SB-C18 Analytical HPLC Acute Tox. 3 Acute Tox. 4 Flam. Liq. 2 STOT SE 1	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
Eclipse XDB-C18 Analytical Acute Tox. 3 Acute Tox. 4 Flam. Liq. 2 STOT SE 1	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
Extend-C18 Analytical Acute Tox. 3 Acute Tox. 4 Flam. Liq. 2 STOT SE 1	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Date of issue/ Date of revision : 21/02/2024

Date of previous issue : No previous validation

Version : 1

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