Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

ZORBAX Fast pH Method Development Kit, Part Number 5185-5808

Section 1. Identification

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

1.1 Product identifier

Product name : ZORBAX Fast pH Method Development Kit, Part Number 5185-5808

Part no. (chemical kit) : 5185-5808

Part no. :

SB-C18 Rapid Res HPLC	866953-902
XDB-C18	966967-902
Extend-C18	766953-902

Validation date : 2/21/2024

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 Rapid Res HPLC	3.5 um, 4.6 x 75 mm
XDB-C18	3.5 um, 4.6 x 75 mm
Extend-C18	3.5 um, 4.6 x 75 mm

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

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

2.1 Classification of the substance or mixture

OSHA/HCS status :

SB-C18 Rapid Res HPLC	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
XDB-C18	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Extend-C18	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

SB-C18 Rapid Res 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

XDB-C18

H225	FLAMMABLE LIQUIDS - Category 2

Section 2. Hazards identification

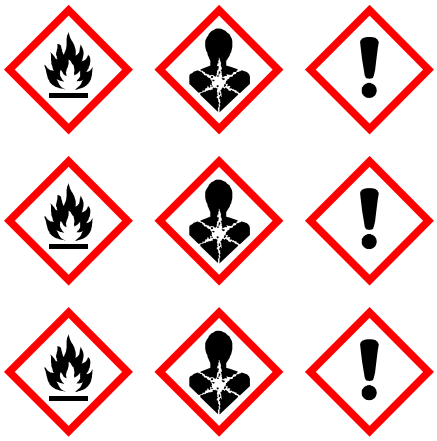
H302	ACUTE TOXICITY (oral) - Category 4
H312	ACUTE TOXICITY (dermal) - Category 4
H332	ACUTE TOXICITY (inhalation) - Category 4
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Extend-C18

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

2.2 GHS label elements

Hazard pictograms : SB-C18 Rapid Res HPLC



XDB-C18

Extend-C18

Signal word :

SB-C18 Rapid Res HPLC	Danger
XDB-C18	Danger
Extend-C18	Danger

Hazard statements :

SB-C18 Rapid Res HPLC	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
XDB-C18	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
Extend-C18	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.

Precautionary statements

Prevention : SB-C18 Rapid Res HPLC

P280 - Wear protective gloves and protective clothing.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 - Use explosion-proof electrical, ventilating or lighting equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P233 - Keep container tightly closed.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash thoroughly after handling.

Section 2. Hazards identification

		XDB-C18	P280 - Wear protective gloves and protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P233 - Keep container tightly closed. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
		Extend-C18	P280 - Wear protective gloves and protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P233 - Keep container tightly closed. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	:	SB-C18 Rapid Res HPLC	P308 + P311 - IF exposed: Call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
		XDB-C18	P308 + P311 - IF exposed: Call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
		Extend-C18	P308 + P311 - IF exposed: Call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	SB-C18 Rapid Res HPLC	P403 + P235 - Store in a well-ventilated place. Keep cool.
		XDB-C18	P403 + P235 - Store in a well-ventilated place. Keep cool.
		Extend-C18	P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	:	SB-C18 Rapid Res HPLC	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		XDB-C18	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Extend-C18	P501 - Dispose of contents and container in

Section 2. Hazards identification

accordance with all local, regional, national and international regulations.

Supplemental label elements	: SB-C18 Rapid Res HPLC	None known.
	XDB-C18	None known.
	Extend-C18	None known.

2.3 Other hazards

Hazards not otherwise classified	: SB-C18 Rapid Res HPLC	None known.
	XDB-C18	None known.
	Extend-C18	None known.

Section 3. Composition/information on ingredients

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

Substance/mixture	: SB-C18 Rapid Res HPLC	Mixture (encapsulated in article)
	XDB-C18	Mixture (encapsulated in article)
	Extend-C18	Mixture (encapsulated in article)

Ingredient name	%	CAS number
SB-C18 Rapid Res HPLC		
Methanol	≥10 - ≤25	67-56-1
XDB-C18		
Methanol	≥25 - <30	67-56-1
Extend-C18		
Methanol	≥25 - <30	67-56-1

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

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: SB-C18 Rapid Res 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.
	XDB-C18	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Section 4. First aid measures

			Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
		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. If necessary, call a poison center or physician.
Inhalation	:	SB-C18 Rapid Res 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.
		XDB-C18	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	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.

Section 4. First aid measures

Skin contact	:	SB-C18 Rapid Res HPLC	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.
		XDB-C18	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	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 Rapid Res 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.
		XDB-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 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	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.

Section 4. First aid measures

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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Over-exposure signs/symptoms

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

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

Notes to physician :	SB-C18 Rapid Res HPLC	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	XDB-C18	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Extend-C18	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been

Section 4. First aid measures

			ingested or inhaled.
Specific treatments	:	SB-C18 Rapid Res HPLC	No specific treatment.
		XDB-C18	No specific treatment.
		Extend-C18	No specific treatment.
Protection of first-aiders	:	SB-C18 Rapid Res 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.
		XDB-C18	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	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	SB-C18 Rapid Res HPLC	Use dry chemical, CO_2, water spray (fog) or foam.
		XDB-C18	Use dry chemical, CO_2, water spray (fog) or foam.
		Extend-C18	Use dry chemical, CO_2, water spray (fog) or foam.
Unsuitable extinguishing media	:	SB-C18 Rapid Res HPLC	Do not use water jet.
		XDB-C18	Do not use water jet.
		Extend-C18	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	:	SB-C18 Rapid Res HPLC	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
		XDB-C18	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
		Extend-C18	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products :	SB-C18 Rapid Res HPLC	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	XDB-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	Extend-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.

5.3 Advice for firefighters

Special protective actions for fire-fighters :	SB-C18 Rapid Res 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.
	XDB-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 :	SB-C18 Rapid Res HPLC	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	XDB-C18	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Extend-C18	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :	SB-C18 Rapid Res 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	XDB-C18	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Extend-C18	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders :	SB-C18 Rapid Res HPLC	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	XDB-C18	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Extend-C18	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions :	SB-C18 Rapid Res HPLC	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	XDB-C18	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Extend-C18	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 6. Accidental release measures

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up :

SB-C18 Rapid Res 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.

XDB-C18: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Extend-C18: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures :

SB-C18 Rapid Res HPLC: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor 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.

XDB-C18: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor 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

Section 7. Handling and storage

		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 get in eyes or on skin or clothing. Do not breathe vapor 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 Rapid Res 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.
	XDB-C18	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Extend-C18	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities :	SB-C18 Rapid Res 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 oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	XDB-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

Section 7. Handling and storage

	incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Extend-C18	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: SB-C18 Rapid Res HPLC	Industrial applications, Professional applications.
	XDB-C18	Industrial applications, Professional applications.
	Extend-C18	Industrial applications, Professional applications.
Industrial sector specific solutions	: SB-C18 Rapid Res HPLC	Not available.
	XDB-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

Ingredient name	Exposure limits
SB-C18 Rapid Res HPLC Methanol	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours.

Section 8. Exposure controls/personal protection

	STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** STEL: 325 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. C: 1000 ppm TWA: 260 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
XDB-C18 Methanol	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2020).** **Absorbed through skin.** TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** STEL: 325 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. C: 1000 ppm TWA: 260 mg/m³ 8 hours. TWA: 200 ppm 8 hours.
Extend-C18 Methanol	**ACGIH TLV (United States, 1/2023).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** **Absorbed through skin.** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2020).**

Section 8. Exposure controls/personal protection

	Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. **CAL OSHA PEL (United States, 5/2018).** **Absorbed through skin.** STEL: 325 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. C: 1000 ppm TWA: 260 mg/m³ 8 hours. TWA: 200 ppm 8 hours.

Biological exposure indices

Ingredient name	Exposure indices
SB-C18 Rapid Res HPLC	
Methanol	**ACGIH BEI (United States, 1/2023)** BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.
XDB-C18	
Methanol	**ACGIH BEI (United States, 1/2023)** BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.
Extend-C18	
Methanol	**ACGIH BEI (United States, 1/2023)** BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.

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.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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

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: 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.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state :	SB-C18 Rapid Res HPLC	Solid. (containing flammable liquid)
	XDB-C18	Solid. (containing flammable liquid)
	Extend-C18	Solid. (containing flammable liquid)
Color :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
Odor :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
Odor threshold :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
pH :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
Melting point/freezing point :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
Boiling point, initial boiling point, and boiling range :	SB-C18 Rapid Res HPLC	Not available.
	XDB-C18	Not available.
	Extend-C18	Not available.
Flash point :	SB-C18 Rapid Res HPLC	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.]
	XDB-C18	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.]
	Extend-C18	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.]

Section 9. Physical and chemical properties and safety characteristics

Evaporation rate :

SB-C18 Rapid Res HPLC	Not available.
XDB-C18	Not available.
Extend-C18	Not available.

Flammability :

SB-C18 Rapid Res HPLC	Contains: Flammable liquid
XDB-C18	Contains: Flammable liquid
Extend-C18	Contains: Flammable liquid

Lower and upper explosion limit/flammability limit :

SB-C18 Rapid Res HPLC	Not available.
XDB-C18	Not available.
Extend-C18	Not available.

Vapor pressure :

Ingredient name	Vapor Pressure at 20˚C			Vapor pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
SB-C18 Rapid Res HPLC						
Methanol	126.96329	16.9	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
XDB-C18						
Methanol	126.96329	16.9	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-
Extend-C18						
Methanol	126.96329	16.9	-	-	-	-
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density :

SB-C18 Rapid Res HPLC	Not available.
XDB-C18	Not available.
Extend-C18	Not available.

Relative density :

SB-C18 Rapid Res HPLC	Not available.
XDB-C18	Not available.
Extend-C18	Not available.

Solubility(ies) :

Media	Result
SB-C18 Rapid Res HPLC	
Mobile phase	Soluble
Stationary phase	Insoluble
XDB-C18	
Mobile phase	Soluble
Stationary phase	Insoluble
Extend-C18	
Mobile phase	Soluble
Stationary phase	Insoluble

Partition coefficient: n-octanol/water :

SB-C18 Rapid Res HPLC	Not applicable.
XDB-C18	Not applicable.
Extend-C18	Not applicable.

Auto-ignition temperature :

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
SB-C18 Rapid Res HPLC			
Methanol	455	851	DIN 51794
XDB-C18			
Methanol	455	851	DIN 51794
Extend-C18			
Methanol	455	851	DIN 51794

Decomposition temperature :
SB-C18 Rapid Res HPLC — Not available.
XDB-C18 — Not available.
Extend-C18 — Not available.

Viscosity :
SB-C18 Rapid Res HPLC — Not available.
XDB-C18 — Not available.
Extend-C18 — Not available.

Particle characteristics

Median particle size :
SB-C18 Rapid Res HPLC — Not applicable.
XDB-C18 — Not applicable.
Extend-C18 — Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity :
SB-C18 Rapid Res HPLC — No specific test data related to reactivity available for this product or its ingredients.
XDB-C18 — No specific test data related to reactivity available for this product or its ingredients.
Extend-C18 — No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability :
SB-C18 Rapid Res HPLC — The product is stable.
XDB-C18 — The product is stable.
Extend-C18 — The product is stable.

10.3 Possibility of hazardous reactions :
SB-C18 Rapid Res HPLC — Under normal conditions of storage and use, hazardous reactions will not occur.
XDB-C18 — Under normal conditions of storage and use, hazardous reactions will not occur.
Extend-C18 — Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid :
SB-C18 Rapid Res HPLC — Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
XDB-C18 — Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Extend-C18 — Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Section 10. Stability and reactivity

10.5 Incompatible materials :

SB-C18 Rapid Res HPLC	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.
XDB-C18	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.
Extend-C18	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.

10.6 Hazardous decomposition products :

SB-C18 Rapid Res HPLC	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
XDB-C18	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Extend-C18	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
SB-C18 Rapid Res HPLC				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
XDB-C18				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Extend-C18				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Section 11. Toxicological information

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

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
SB-C18 Rapid Res HPLC			
Methanol	Category 1	-	central nervous system (CNS), optic nerve
XDB-C18			
Methanol	Category 1	-	central nervous system (CNS), optic nerve
Extend-C18			
Methanol	Category 1	-	central nervous system (CNS), optic nerve

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	: SB-C18 Rapid Res HPLC	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	XDB-C18	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Extend-C18	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Delayed and immediate effects and also 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.

Section 11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

General :	SB-C18 Rapid Res HPLC	No known significant effects or critical hazards.
	XDB-C18	No known significant effects or critical hazards.
	Extend-C18	No known significant effects or critical hazards.
Carcinogenicity :	SB-C18 Rapid Res HPLC	No known significant effects or critical hazards.
	XDB-C18	No known significant effects or critical hazards.
	Extend-C18	No known significant effects or critical hazards.
Mutagenicity :	SB-C18 Rapid Res HPLC	No known significant effects or critical hazards.
	XDB-C18	No known significant effects or critical hazards.
	Extend-C18	No known significant effects or critical hazards.
Reproductive toxicity :	SB-C18 Rapid Res HPLC	No known significant effects or critical hazards.
	XDB-C18	No known significant effects or critical hazards.
	Extend-C18	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SB-C18 Rapid Res HPLC					
SB-C18 Rapid Res HPLC	409.8	1229.5	N/A	12.3	N/A
Methanol	100	300	N/A	3	N/A
XDB-C18					
XDB-C18	367.6	1102.9	N/A	11.0	N/A
Methanol	100	300	N/A	3	N/A
Extend-C18					
Extend-C18	367.6	1102.9	N/A	11.0	N/A
Methanol	100	300	N/A	3	N/A

Other information :

SB-C18 Rapid Res 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.
XDB-C18	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	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 Rapid Res HPLC			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - *Ulva pertusa*	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - *Crangon crangon* - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - *Danio rerio* - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - *Ulva pertusa*	96 hours
XDB-C18			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - *Ulva pertusa*	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - *Crangon crangon* - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - *Danio rerio* - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - *Ulva pertusa*	96 hours
Extend-C18			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - *Ulva pertusa*	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - *Crangon crangon* - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - *Danio rerio* - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - *Ulva pertusa*	96 hours

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
SB-C18 Rapid Res HPLC			
Methanol	-0.77	<10	Low
XDB-C18			
Methanol	-0.77	<10	Low
Extend-C18			
Methanol	-0.77	<10	Low

12.4 Mobility in soil

Section 12. Ecological information

Soil/water partition coefficient (K_{OC}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
SB-C18 Rapid Res HPLC			
Methanol (l)	67-56-1	Listed	U154
XDB-C18			
Methanol (l)	67-56-1	Listed	U154
Extend-C18			
Methanol (l)	67-56-1	Listed	U154

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

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

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

Section 14. Transport information

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

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

Additional information

Remarks: Special provisions
DOT: 47
TDG: 56
MX: 216
IATA: A46
IMDG: 216

Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification :

SB-C18 Rapid Res HPLC	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
XDB-C18	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Extend-C18	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Composition/information on ingredients

Section 15. Regulatory information

Name	%	Classification
SB-C18 Rapid Res HPLC		
Organosilane bonded silica gel	≥50 - ≤75	COMBUSTIBLE DUSTS
Methanol	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
XDB-C18		
Organosilane bonded silica gel	≥50 - ≤75	COMBUSTIBLE DUSTS
Methanol	≥25 - <30	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Extend-C18		
Organosilane bonded silica gel	≥50 - ≤75	COMBUSTIBLE DUSTS
Methanol	≥25 - <30	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	**SB-C18 Rapid Res HPLC**		
	Methanol	67-56-1	≥10 - ≤25
	XDB-C18		
	Methanol	67-56-1	≥25 - <30
	Extend-C18		
	Methanol	67-56-1	≥25 - <30
Supplier notification	**SB-C18 Rapid Res HPLC**		
	Methanol	67-56-1	≥10 - ≤25
	XDB-C18		
	Methanol	67-56-1	≥25 - <30
	Extend-C18		
	Methanol	67-56-1	≥25 - <30

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

State regulations

Massachusetts : The following components are listed: METHANOL

New York : The following components are listed: Methanol

New Jersey : The following components are listed: METHYL ALCOHOL

Pennsylvania : The following components are listed: METHANOL

California Prop. 65

⚠ **WARNING**: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
SB-C18 Rapid Res HPLC		
Methanol	-	Yes.
XDB-C18		
Methanol	-	Yes.
Extend-C18		
Methanol	-	Yes.

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.

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.

Section 16. Other information

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
SB-C18 Rapid Res HPLC	
FLAMMABLE LIQUIDS - Category 2	Expert judgment
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
XDB-C18	
FLAMMABLE LIQUIDS - Category 2	Expert judgment
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method
Extend-C18	
FLAMMABLE LIQUIDS - Category 2	Expert judgment
ACUTE TOXICITY (oral) - Category 4	Calculation method
ACUTE TOXICITY (dermal) - Category 4	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Calculation method

History

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

Date of previous issue : 06/01/2021

Version : 6

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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.