

# SAFETY DATA SHEET



Rapid Resolution pH Method Development Kit, Part Number 5190-1436

## 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** : Rapid Resolution pH Method Development Kit, Part Number 5190-1436  
**Part no. (chemical kit)** : 5190-1436  
**Part no.** : ZORBAX Extend C18 764953-902  
 SB-C18 Rapid Res 861953-902  
 Eclipse Plus C18 959961-902  
**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  
 ZORBAX Extend C18 3.5 um, 4.6 x 100 mm  
 SB-C18 Rapid Res 3.5 um, 4.6 x 100 mm  
 Eclipse Plus C18 3.5 um, 4.6 x 100 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** : ZORBAX Extend C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 SB-C18 Rapid Res This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
 Eclipse Plus C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

**ZORBAX 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  
**SB-C18 Rapid Res**  
 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

### Eclipse Plus 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

<b>Hazard pictograms</b>	: ZORBAX Extend C18	
	SB-C18 Rapid Res	
	Eclipse Plus C18	
<b>Signal word</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	Danger Danger Danger
<b>Hazard statements</b>	: ZORBAX 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.
	SB-C18 Rapid Res	H225 - Highly flammable liquid and vapor. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.
	Eclipse Plus 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.
<b>Precautionary statements</b>		
<b>Prevention</b>	: ZORBAX 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.

## Section 2. Hazards identification

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

## Section 2. Hazards identification

		accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	None known. None known. None known.
<b>2.3 Other hazards</b>		
<b>Hazards not otherwise classified</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	None known. None known. None known.

## Section 3. Composition/information on ingredients

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

<b>Substance/mixture</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)
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Ingredient name	%	CAS number
<b>ZORBAX Extend C18</b>		
Methanol	≥25 - <30	67-56-1
<b>SB-C18 Rapid Res</b>		
Methanol	≥10 - ≤25	67-56-1
<b>Eclipse Plus C18</b>		
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

<b>Eye contact</b>	: ZORBAX Extend C18  SB-C18 Rapid Res	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. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.
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## Section 4. First aid measures

Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

Eclipse Plus C18

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

### Inhalation

: ZORBAX 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.

SB-C18 Rapid Res

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 Plus 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

<b>Skin contact</b>	: ZORBAX 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.
	SB-C18 Rapid Res	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 Plus 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.
<b>Ingestion</b>	: ZORBAX Extend C18	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If 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.
	SB-C18 Rapid Res	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 Plus C18	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

## 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

<b>Eye contact</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Inhalation</b>	: ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus C18	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.
<b>Skin contact</b>	: ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus C18	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.
<b>Ingestion</b>	: ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus C18	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

<b>Eye contact</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Inhalation</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.

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

<b>Notes to physician</b>	: ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus C18	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been
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## Section 4. First aid measures

<b>Specific treatments</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	ingested or inhaled. No specific treatment. No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus 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. 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. 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

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

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

<b>Specific hazards arising from the chemical</b>	:  ZORBAX Extend C18  SB-C18 Rapid Res  Eclipse Plus 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. 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. 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.
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## Section 5. Fire-fighting measures

<b>Hazardous thermal decomposition products</b>	: ZORBAX Extend C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	SB-C18 Rapid Res	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.
	Eclipse Plus C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde.

### 5.3 Advice for firefighters

<b>Special protective actions for fire-fighters</b>	: ZORBAX 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.
	SB-C18 Rapid Res	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 Plus C18	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: ZORBAX 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.
	SB-C18 Rapid Res	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Eclipse Plus C18	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

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

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

## Section 6. Accidental release measures

### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** : ZORBAX Extend C18

SB-C18 Rapid Res

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.

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 Plus C18

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

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** : ZORBAX Extend C18

SB-C18 Rapid Res

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.

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

	Eclipse Plus C18	<p>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 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.</p>
<p><b>Advice on general occupational hygiene</b></p>	<p>: ZORBAX Extend C18</p> <p>SB-C18 Rapid Res</p> <p>Eclipse Plus C18</p>	<p>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. 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. 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.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>: ZORBAX Extend C18</p> <p>SB-C18 Rapid Res</p>	<p>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. 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</p>

## Section 7. Handling and storage

Eclipse Plus C18

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.

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)

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

## Section 8. Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>ZORBAX Extend C18</b> Methanol	<b>ACGIH TLV (United States, 1/2023).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 262 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL 1989 (United States, 3/1989).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2020).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 10 hours. TWA: 260 mg/m <sup>3</sup> 10 hours.

## Section 8. Exposure controls/personal protection

**SB-C18 Rapid Res**  
Methanol

STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL (United States, 5/2018).**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.  
**CAL OSHA PEL (United States, 5/2018).**  
**Absorbed through skin.**  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
STEL: 250 ppm 15 minutes.  
C: 1000 ppm  
TWA: 260 mg/m<sup>3</sup> 8 hours.  
TWA: 200 ppm 8 hours.

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

**Eclipse Plus C18**  
Methanol

**ACGIH TLV (United States, 1/2023).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 262 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 328 mg/m<sup>3</sup> 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
**Absorbed through skin.**  
TWA: 200 ppm 8 hours.  
TWA: 260 mg/m<sup>3</sup> 8 hours.  
STEL: 250 ppm 15 minutes.  
STEL: 325 mg/m<sup>3</sup> 15 minutes.  
**NIOSH REL (United States, 10/2020).**

## Section 8. Exposure controls/personal protection

	<p><b>Absorbed through skin.</b>  TWA: 200 ppm 10 hours.  TWA: 260 mg/m<sup>3</sup> 10 hours.  STEL: 250 ppm 15 minutes.  STEL: 325 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>  TWA: 200 ppm 8 hours.  TWA: 260 mg/m<sup>3</sup> 8 hours.  <b>CAL OSHA PEL (United States, 5/2018).</b>  <b>Absorbed through skin.</b>  STEL: 325 mg/m<sup>3</sup> 15 minutes.  STEL: 250 ppm 15 minutes.  C: 1000 ppm  TWA: 260 mg/m<sup>3</sup> 8 hours.  TWA: 200 ppm 8 hours.</p>
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### Biological exposure indices

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

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



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

Ingredient name	°C	°F	Method
<b>ZORBAX Extend C18</b>			
Methanol	455	851	DIN 51794
<b>SB-C18 Rapid Res</b>			
Methanol	455	851	DIN 51794
<b>Eclipse Plus C18</b>			
Methanol	455	851	DIN 51794

**Decomposition temperature** : ZORBAX Extend C18 Not available.  
 SB-C18 Rapid Res Not available.  
 Eclipse Plus C18 Not available.

**Viscosity** : ZORBAX Extend C18 Not available.  
 SB-C18 Rapid Res Not available.  
 Eclipse Plus C18 Not available.

### Particle characteristics

**Median particle size** : ZORBAX Extend C18 Not applicable.  
 SB-C18 Rapid Res Not applicable.  
 Eclipse Plus C18 Not applicable.

## Section 10. Stability and reactivity

**10.1 Reactivity** : ZORBAX Extend C18 No specific test data related to reactivity available for this product or its ingredients.  
 SB-C18 Rapid Res No specific test data related to reactivity available for this product or its ingredients.  
 Eclipse Plus C18 No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : ZORBAX Extend C18 The product is stable.  
 SB-C18 Rapid Res The product is stable.  
 Eclipse Plus C18 The product is stable.

**10.3 Possibility of hazardous reactions** : ZORBAX Extend C18 Under normal conditions of storage and use, hazardous reactions will not occur.  
 SB-C18 Rapid Res Under normal conditions of storage and use, hazardous reactions will not occur.  
 Eclipse Plus C18 Under normal conditions of storage and use, hazardous reactions will not occur.

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

## Section 10. Stability and reactivity

### 10.5 Incompatible materials : ZORBAX Extend C18

SB-C18 Rapid Res

Eclipse Plus C18

Reactive or incompatible with the following materials:

oxidizing materials

Reactive or incompatible with the following materials:

oxidizing materials

Reactive or incompatible with the following materials:

oxidizing materials

### 10.6 Hazardous decomposition products : ZORBAX Extend C18

SB-C18 Rapid Res

Eclipse Plus C18

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>ZORBAX Extend C18</b> 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	-
<b>SB-C18 Rapid Res</b> 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	-
<b>Eclipse Plus C18</b> 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
<b>ZORBAX Extend C18</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
<b>SB-C18 Rapid Res</b> Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
<b>Eclipse Plus C18</b> 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
<b>ZORBAX Extend C18</b> Methanol	Category 1	-	central nervous system (CNS), optic nerve
<b>SB-C18 Rapid Res</b> Methanol	Category 1	-	central nervous system (CNS), optic nerve
<b>Eclipse Plus C18</b> 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

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

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

<b>Eye contact</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Inhalation</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No specific data. No specific data. 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

<b>General</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>ZORBAX Extend C18</b> ZORBAX Extend C18 Methanol	366.3 100	1098.9 300	N/A N/A	11.0 3	N/A N/A
<b>SB-C18 Rapid Res</b> SB-C18 Rapid Res Methanol	408.3 100	1225.0 300	N/A N/A	12.2 3	N/A N/A
<b>Eclipse Plus C18</b> Eclipse Plus C18 Methanol	366.3 100	1098.9 300	N/A N/A	11.0 3	N/A N/A

<b>Other information</b>	: ZORBAX 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.
	SB-C18 Rapid Res	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 Plus 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
<b>ZORBAX Extend C18</b> 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> - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water Chronic NOEC 9.96 mg/l Marine water	Fish - <i>Danio rerio</i> - Egg Algae - <i>Ulva pertusa</i>	96 hours 96 hours
<b>SB-C18 Rapid Res</b> 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> - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water Chronic NOEC 9.96 mg/l Marine water	Fish - <i>Danio rerio</i> - Egg Algae - <i>Ulva pertusa</i>	96 hours 96 hours
<b>Eclipse Plus C18</b> 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> - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water Chronic NOEC 9.96 mg/l Marine water	Fish - <i>Danio rerio</i> - Egg Algae - <i>Ulva pertusa</i>	96 hours 96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>ZORBAX Extend C18</b> Methanol	-	-	Readily
<b>SB-C18 Rapid Res</b> Methanol	-	-	Readily
<b>Eclipse Plus C18</b> Methanol	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>ZORBAX Extend C18</b> Methanol	-0.77	<10	Low
<b>SB-C18 Rapid Res</b> Methanol	-0.77	<10	Low
<b>Eclipse Plus C18</b> Methanol	-0.77	<10	Low

### 12.4 Mobility in soil

## Section 12. Ecological information

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

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

Ingredient	CAS #	Status	Reference number
<b>ZORBAX Extend C18</b> Methanol (l)	67-56-1	Listed	U154
<b>SB-C18 Rapid Res</b> Methanol (l)	67-56-1	Listed	U154
<b>Eclipse Plus C18</b> 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.

**IATA**

### 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**

:  ORBAX Extend C18

SB-C18 Rapid Res

Eclipse Plus 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  
 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  
 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
<b>ZORBAX Extend C18</b> Organosilane bonded silica gel Methanol	≥50 - ≤75 ≥25 - <30	COMBUSTIBLE DUSTS 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
<b>SB-C18 Rapid Res</b> Organosilane bonded silica gel Methanol	≥50 - ≤75 ≥10 - ≤25	COMBUSTIBLE DUSTS 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
<b>Eclipse Plus C18</b> Organosilane bonded silica gel Methanol	≥50 - ≤75 ≥25 - <30	COMBUSTIBLE DUSTS 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	%
<b>Form R - Reporting requirements</b>	<b>ZORBAX Extend C18</b> Methanol	67-56-1	≥25 - <30
	<b>SB-C18 Rapid Res</b> Methanol	67-56-1	≥10 - ≤25
	<b>Eclipse Plus C18</b> Methanol	67-56-1	≥25 - <30
<b>Supplier notification</b>	<b>ZORBAX Extend C18</b> Methanol	67-56-1	≥25 - <30
	<b>SB-C18 Rapid Res</b> Methanol	67-56-1	≥10 - ≤25
	<b>Eclipse Plus C18</b> 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](http://www.P65Warnings.ca.gov).

## Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
<b>ZORBAX Extend C18</b> Methanol	-	Yes.
<b>SB-C18 Rapid Res</b> Methanol	-	Yes.
<b>Eclipse Plus C18</b> 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

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>China</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> All components are listed or exempted. <b>Japan inventory (ISHL):</b> All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Taiwan</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### Procedure used to derive the classification

## Section 16. Other information

Classification	Justification
<b>ZORBAX Extend C18</b> 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	Expert judgment Calculation method Calculation method Calculation method Calculation method
<b>SB-C18 Rapid Res</b> 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	Expert judgment Calculation method Calculation method Calculation method Calculation method
<b>Eclipse Plus C18</b> 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	Expert judgment Calculation method Calculation method Calculation method Calculation method

### History

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

**Date of previous issue** : 06/01/2021

**Version** : 5

### 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

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