

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 : 6/1/2021

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

Material 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
 H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H360 TOXIC TO REPRODUCTION - Category 1B
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Section 2. Hazards identification

H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SB-C18 Rapid Res

H225 FLAMMABLE LIQUIDS - Category 2
 H302 ACUTE TOXICITY (oral) - Category 4
 H312 ACUTE TOXICITY (dermal) - Category 4
 H332 ACUTE TOXICITY (inhalation) - Category 4
 H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H360 TOXIC TO REPRODUCTION - Category 1B
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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
 H315 SKIN IRRITATION - Category 2
 H319 EYE IRRITATION - Category 2A
 H360 TOXIC TO REPRODUCTION - Category 1B
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

2.2 GHS label elements

Hazard pictograms

: ZORBAX Extend C18



SB-C18 Rapid Res



Eclipse Plus C18



Signal word

: ZORBAX Extend C18
 SB-C18 Rapid Res
 Eclipse Plus C18

Danger
 Danger
 Danger

Hazard statements

: ZORBAX Extend C18

H225 - Highly flammable liquid and vapor.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H360 - May damage fertility or the unborn child.
 H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)

Section 2. Hazards identification

SB-C18 Rapid Res

H225 - Highly flammable liquid and vapor.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H360 - May damage fertility or the unborn child.
 H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)

Eclipse Plus C18

H225 - Highly flammable liquid and vapor.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H360 - May damage fertility or the unborn child.
 H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)

Precautionary statements

Prevention

: ZORBAX Extend C18

P201 - Obtain special instructions before use.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

SB-C18 Rapid Res

P201 - Obtain special instructions before use.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Eclipse Plus C18

P201 - Obtain special instructions before use.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

: ZORBAX Extend C18

P308 + P311 - IF exposed: Call a POISON CENTER or doctor.

SB-C18 Rapid Res

P308 + P311 - IF exposed: Call a POISON CENTER or doctor.

Eclipse Plus C18

P308 + P311 - IF exposed: Call a POISON CENTER or doctor.

Storage

: ZORBAX Extend C18

P403 + P235 - Store in a well-ventilated place. Keep cool.

SB-C18 Rapid Res

P403 + P235 - Store in a well-ventilated place. Keep cool.

Eclipse Plus C18

P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal

: ZORBAX Extend C18

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SB-C18 Rapid Res

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Eclipse Plus C18

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

| | | |
|------------------------------------|---------------------|-------------|
| Supplemental label elements | : ZORBAX Extend C18 | None known. |
| | SB-C18 Rapid Res | None known. |
| | Eclipse Plus C18 | None known. |

2.3 Other hazards

| | | |
|---|---------------------|-------------|
| Hazards not otherwise classified | : ZORBAX Extend C18 | None known. |
| | SB-C18 Rapid Res | None known. |
| | Eclipse Plus 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 | : ZORBAX Extend C18 | Mixture (encapsulated in article) |
| | SB-C18 Rapid Res | Mixture (encapsulated in article) |
| | Eclipse Plus C18 | Mixture (encapsulated in article) |

| Ingredient name | % | CAS number |
|--------------------------------------|-----------|------------|
| ZORBAX Extend C18 Methanol | ≥25 - <30 | 67-56-1 |
| SB-C18 Rapid Res Methanol | ≥10 - ≤25 | 67-56-1 |
| Eclipse Plus 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 as hazardous to health or the environment 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 | : ZORBAX 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. |
| | 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. |
| | 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 |

Section 4. First aid measures

Inhalation

: ZORBAX Extend C18

medical attention. If necessary, call a poison center or physician.

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.

Skin contact

: 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

Section 4. First aid measures

| | | |
|------------------|---------------------|---|
| | Eclipse Plus C18 | <p>necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.</p> <p>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.</p> |
| Ingestion | : ZORBAX Extend C18 | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.</p> |
| | SB-C18 Rapid Res | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.</p> |
| | Eclipse Plus C18 | <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.</p> |

Section 4. First aid measures

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

| | | |
|---------------------|---|---|
| Eye contact | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation. |
| Inhalation | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : 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. Causes skin irritation. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. |
| Ingestion | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |

Over-exposure signs/symptoms

| | | |
|--------------------|---|--|
| Eye contact | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : ZORBAX Extend C18 | Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo |

Section 4. First aid measures

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| | | <ul style="list-style-type: none"> unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : ZORBAX Extend C18 | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : ZORBAX Extend C18 | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | <p>Adverse symptoms may include the following:</p> <ul style="list-style-type: none"> reduced fetal weight increase in fetal deaths skeletal malformations |

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

Section 4. First aid measures

| | | |
|-----------------------------------|---|---|
| Notes to physician | : 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 ingested or inhaled. |
| Specific treatments | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | No specific treatment. No specific treatment. No specific treatment. |
| Protection of first-aiders | : 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

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| Suitable extinguishing media | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : 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

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| Specific hazards arising from the chemical | : ZORBAX Extend C18 SB-C18 Rapid Res | 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 |
|---|---|--|

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

Eclipse Plus C18

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.

: 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

Special protective actions for fire-fighters

: 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.

Special protective equipment for fire-fighters

: 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

| | | |
|--------------------------------------|---------------------|--|
| For non-emergency personnel | : 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. |
| For emergency responders | : 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". |
| 6.2 Environmental precautions | : 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

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.

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.

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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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

Section 7. Handling and storage

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|--|--|--|
| | Eclipse Plus C18 | <p>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>Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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>Advice on general occupational hygiene</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.</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.</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.</p> |
| <p>7.2 Conditions for safe storage, including any incompatibilities</p> | <p>: ZORBAX Extend C18</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</p> |

Section 7. Handling and storage

SB-C18 Rapid Res

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. 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.

Eclipse Plus C18

7.3 Specific end use(s)

Recommendations

: ZORBAX Extend C18
SB-C18 Rapid Res
Eclipse Plus C18

Industrial applications, Professional applications.
Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: 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 |
|-------------------------------|--|
| ZORBAX Extend C18 Methanol | ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m ³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. |

Section 8. Exposure controls/personal protection

SB-C18 Rapid Res
Methanol

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, 10/2016).
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.

ACGIH TLV (United States, 3/2020).
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, 10/2016).
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.

Eclipse Plus C18
Methanol

ACGIH TLV (United States, 3/2020).
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, 10/2016).
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.

Section 8. Exposure controls/personal protection

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.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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

9.1 Information on basic physical and chemical properties

Appearance

- | | | |
|-----------------------|---|--|
| Physical state | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid) |
| Color | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Not available. Not available. Not available. |
| Odor | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Not available. Not available. Not available. |
| Odor threshold | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | Not available. Not available. Not available. |
| pH | : | |

Section 9. Physical and chemical properties

| | | |
|---|---------------------|--|
| | ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Melting point | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Boiling point | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Flash point | : ZORBAX Extend C18 | Closed cup: -18 to 23°C (-0.4 to 73.4°F) |
| | SB-C18 Rapid Res | Closed cup: -18 to 23°C (-0.4 to 73.4°F) |
| | Eclipse Plus C18 | Closed cup: -18 to 23°C (-0.4 to 73.4°F) |
| Evaporation rate | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Flammability (solid, gas) | : ZORBAX Extend C18 | Contains: Flammable liquid |
| | SB-C18 Rapid Res | Contains: Flammable liquid |
| | Eclipse Plus C18 | Contains: Flammable liquid |
| Lower and upper explosive (flammable) limits | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Vapor pressure | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Vapor density | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Relative density | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Solubility | : ZORBAX Extend C18 | Mobile phase: Soluble |
| | | Stationary phase: Insoluble |
| | SB-C18 Rapid Res | Mobile phase: Soluble |
| | | Stationary phase: Insoluble |
| | Eclipse Plus C18 | Mobile phase: Soluble |
| | | Stationary phase: Insoluble |
| Partition coefficient: n-octanol/water | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| Auto-ignition temperature | : ZORBAX Extend C18 | Not available. |
| | SB-C18 Rapid Res | Not available. |
| | Eclipse Plus C18 | Not available. |
| 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. |

Section 10. Stability and reactivity

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

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

Section 11. Toxicological information

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|--------------------------------------|------------|-------------------|--|
| ZORBAX Extend C18 Methanol | Category 1 | - | central nervous system (CNS), optic nerve |
| | Category 3 | | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| SB-C18 Rapid Res Methanol | Category 1 | - | central nervous system (CNS), optic nerve |
| | Category 3 | | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Eclipse Plus C18 Methanol | Category 1 | - | central nervous system (CNS), optic nerve |
| | Category 3 | | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : ZORBAX Extend C18

Routes of entry anticipated: Oral, Dermal, Inhalation.

SB-C18 Rapid Res

Routes of entry anticipated: Oral, Dermal, Inhalation.

Eclipse Plus C18

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : ZORBAX Extend C18
SB-C18 Rapid Res
Eclipse Plus C18

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

Inhalation : ZORBAX Extend C18

Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

SB-C18 Rapid Res

Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Eclipse Plus C18

Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause

Section 11. Toxicological information

| | | |
|---------------------|---------------------|--|
| Skin contact | : ZORBAX Extend C18 | central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| | SB-C18 Rapid Res | Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. |
| | Eclipse Plus C18 | Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. |
| Ingestion | : ZORBAX Extend C18 | Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |
| | SB-C18 Rapid Res | Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |
| | Eclipse Plus C18 | Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | |
|--------------------|---------------------|---|
| Eye contact | : ZORBAX Extend C18 | Adverse symptoms may include the following: pain or irritation watering redness |
| | SB-C18 Rapid Res | Adverse symptoms may include the following: pain or irritation watering redness |
| | Eclipse Plus C18 | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : ZORBAX Extend C18 | Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | Adverse symptoms may include the following: respiratory tract irritation coughing |

Section 11. Toxicological information

| | | |
|---------------------|---------------------|--|
| | | nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : ZORBAX Extend C18 | Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : ZORBAX Extend C18 | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Rapid Res | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | Eclipse Plus C18 | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

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.

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|------------------------|---|---|
| General | : 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. |
| Carcinogenicity | : 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. |

Section 11. Toxicological information

| | | |
|------------------------------|---|---|
| Mutagenicity | : 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. |
| Reproductive toxicity | : ZORBAX Extend C18 SB-C18 Rapid Res Eclipse Plus C18 | May damage fertility or the unborn child. May damage fertility or the unborn child. May damage fertility or the unborn child. |

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) |
|---|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| ZORBAX Extend C18 ZORBAX Extend C18 Methanol | 366.3 100 | 1098.9 300 | N/A N/A | 11 3 | N/A N/A |
| SB-C18 Rapid Res SB-C18 Rapid Res Methanol | 408.3 100 | 1225 300 | N/A N/A | 12.2 3 | N/A N/A |
| Eclipse Plus C18 Eclipse Plus C18 Methanol | 366.3 100 | 1098.9 300 | N/A N/A | 11 3 | N/A N/A |

| | | |
|--------------------------|---------------------|---|
| Other information | : 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. |
| | 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. |
| | 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. |

Section 12. Ecological information

12.1 Toxicity

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

Section 12. Ecological information

| | | | |
|-------------------------------------|--------------------------------------|---------------------------------------|----------|
| Eclipse Plus C18 Methanol | 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 |
| | 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 |
|--------------------------------------|-------------------|------------|------------------|
| ZORBAX Extend C18 Methanol | - | - | Readily |
| SB-C18 Rapid Res Methanol | - | - | Readily |
| Eclipse Plus C18 Methanol | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--------------------------------------|--------------------|-----|-----------|
| ZORBAX Extend C18 Methanol | -0.77 | <10 | low |
| SB-C18 Rapid Res Methanol | -0.77 | <10 | low |
| Eclipse Plus C18 Methanol | -0.77 | <10 | low |

12.4 Mobility in soil

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

Section 13. Disposal considerations

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 |
|--|---------|--------|------------------|
| ZORBAX Extend C18 Methanol (I); Methyl alcohol (I) | 67-56-1 | Listed | U154 |
| SB-C18 Rapid Res Methanol (I); Methyl alcohol (I) | 67-56-1 | Listed | U154 |
| Eclipse Plus C18 Methanol (I); Methyl alcohol (I) | 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 / : Not regulated.

IATA

Additional information

Remarks: Special provisions

DOT: 47

TDG: 56

MX: 216

IATA: A46

IMDG: 216

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

Section 15. Regulatory information

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 : ZORBAX Extend C18

FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 TOXIC TO REPRODUCTION - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SB-C18 Rapid Res
 FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 TOXIC TO REPRODUCTION - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 Eclipse Plus C18
 FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SKIN IRRITATION - Category 2
 EYE IRRITATION - Category 2A
 TOXIC TO REPRODUCTION - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Composition/information on ingredients

| Name | % | Classification |
|--------------------------------|-----------|---|
| ZORBAX Extend C18 | | |
| Organosilane bonded silica gel | ≥50 - ≤75 | COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Methanol | ≥25 - <30 | |
| SB-C18 Rapid Res | | |

Section 15. Regulatory information

| | | |
|---|------------------------|---|
| 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 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Eclipse Plus C18 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 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |

SARA 313

| | Product name | CAS number | % |
|--|--------------------------------------|------------|-----------|
| Form R - Reporting requirements | ZORBAX Extend C18 Methanol | 67-56-1 | ≥25 - <30 |
| | SB-C18 Rapid Res Methanol | 67-56-1 | ≥10 - ≤25 |
| | Eclipse Plus C18 Methanol | 67-56-1 | ≥25 - <30 |
| Supplier notification | ZORBAX Extend C18 Methanol | 67-56-1 | ≥25 - <30 |
| | SB-C18 Rapid Res Methanol | 67-56-1 | ≥10 - ≤25 |
| | Eclipse Plus 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; METHYL ALCOHOL
- New York** : The following components are listed: Methanol
- New Jersey** : The following components are listed: METHYL ALCOHOL; METHANOL
- 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 |
|--------------------------------------|---------------------------|---------------------------------|
| ZORBAX Extend C18 Methanol | - | Yes. |
| SB-C18 Rapid Res Methanol | - | Yes. |
| Eclipse Plus 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 | : Not determined. |
| China | : All components are listed or exempted. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (ENCS) : 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 | : Not determined. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : All components are listed or exempted. |
| United States | : <input checked="" type="checkbox"/> All components are active or exempted. |
| Viet Nam | : Not determined. |

Section 16. Other information

History

| | |
|-------------------------------|--------------|
| Date of issue | : 06/01/2021 |
| Date of previous issue | : 09/26/2018 |
| Version | : 4 |

Section 16. Other information

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

Procedure used to derive the classification

| Classification | Justification |
|--|---|
| ZORBAX Extend C18 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method |
| SB-C18 Rapid Res FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method |
| Eclipse Plus C18 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method |

 Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

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