

SAFETY DATA SHEET

ZORBAX Aqueous Method Development Kit, Part Number 5185-5809

Section 1. Identification

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

1.1 Product identifier

| | | | |
|--------------------------------|----------------------------------------------------------------|------------|--|
| Product name | : ZORBAX Aqueous Method Development Kit, Part Number 5185-5809 | | |
| Part no. (chemical kit) | : 5185-5809 | | |
| Part no. | : ZORBAX SB-Aq | 883975-914 | |
| | Bonus-RP | 883668-901 | |
| | SB-C18 Analytical HPLC | 883975-902 | |
| Validation date | : 9/26/2018 | | |

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

| | | | |
|----------------------|------------------------------------------------------------------|--------------------|--|
| Material uses | : Reagents and Standards for Analytical Chemistry Laboratory Use | | |
| | HPLC column | | |
| | Solvent volume: < 10 mL | | |
| | ZORBAX SB-Aq | 5 um, 4.6 x 150 mm | |
| | Bonus-RP | 5 um, 4.6 x 150 mm | |
| | SB-C18 Analytical HPLC | 5 um, 4.6 x 150 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 | : <input checked="" type="checkbox"/> ZORBAX SB-Aq | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | Bonus-RP | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| | SB-C18 Analytical HPLC | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |

Classification of the substance or mixture

ZORBAX SB-Aq

| | |
|------|----------------------------------------------------|
| 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 (Unborn child) - Category 1B |

Section 2. Hazards identification

| | |
|------|-----------------------------------------------------------------------------------------------------------|
| H370 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 |

Bonus-RP

| | |
|------|-----------------------------------------------------------------------------------------------------------|
| 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 (Unborn child) - Category 1B |
| H370 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 |

SB-C18 Analytical HPLC

| | |
|------|-----------------------------------------------------------------------------------------------------------|
| H225 | FLAMMABLE LIQUIDS - Category 2 |
| H302 | ACUTE TOXICITY (oral) - Category 4 |
| H312 | ACUTE TOXICITY (dermal) - Category 4 |
| H332 | ACUTE TOXICITY (inhalation) - Category 4 |
| H315 | SKIN IRRITATION - Category 2 |
| H319 | EYE IRRITATION - Category 2A |
| H360 | TOXIC TO REPRODUCTION (Unborn child) - Category 1B |
| H370 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 SB-Aq



Bonus-RP



SB-C18 Analytical HPLC



Signal word

: ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC

Danger
 Danger
 Danger

Section 2. Hazards identification

Hazard statements

: ZORBAX SB-Aq

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

Bonus-RP

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

SB-C18 Analytical HPLC

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

Precautionary statements

Prevention

: ZORBAX SB-Aq

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.

Bonus-RP

P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Section 2. Hazards identification

SB-C18 Analytical HPLC

Response

: ZORBAX SB-Aq

Bonus-RP

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.
 P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
 P332 + P313 - If skin irritation occurs: Get medical attention.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.
 P307 + P311 - IF exposed: Call a POISON CENTER or physician.

Section 2. Hazards identification

SB-C18 Analytical HPLC

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P307 + P311 - IF exposed: Call a POISON CENTER or physician.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

Storage

: ZORBAX SB-Aq

Bonus-RP

SB-C18 Analytical HPLC

Disposal

:

Section 2. Hazards identification

| | | |
|-----------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| | ZORBAX SB-Aq | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | Bonus-RP | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| | SB-C18 Analytical HPLC | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : ZORBAX SB-Aq | None known. |
| | Bonus-RP | None known. |
| | SB-C18 Analytical HPLC | None known. |
| 2.3 Other hazards | | |
| Hazards not otherwise classified | : ZORBAX SB-Aq | None known. |
| | Bonus-RP | None known. |
| | SB-C18 Analytical HPLC | 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 SB-Aq | Mixture (encapsulated in article) |
| | Bonus-RP | Mixture (encapsulated in article) |
| | SB-C18 Analytical HPLC | Mixture (encapsulated in article) |

| Ingredient name | % | CAS number |
|-------------------------------------------|-----------|------------|
| ZORBAX SB-Aq Methanol | ≥10 - ≤25 | 67-56-1 |
| Bonus-RP Methanol | ≥10 - ≤25 | 67-56-1 |
| SB-C18 Analytical HPLC 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. Organosilane bonded silica gel

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 SB-Aq | 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. |
| | Bonus-RP | 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 Analytical HPLC | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. |
| Inhalation | : ZORBAX SB-Aq | 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. |
| | Bonus-RP | 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 Analytical HPLC | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth |

Section 4. First aid measures

Skin contact

: ZORBAX SB-Aq

resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

Bonus-RP

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 Analytical HPLC

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

Ingestion

: ZORBAX SB-Aq

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.

Bonus-RP

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.

Section 4. First aid measures

SB-C18 Analytical HPLC

If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: ZORBAX SB-Aq
Bonus-RP
SB-C18 Analytical HPLC

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

Inhalation

: ZORBAX SB-Aq

Bonus-RP

SB-C18 Analytical HPLC

Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: ZORBAX SB-Aq
Bonus-RP
SB-C18 Analytical HPLC

Harmful in contact with skin. Causes skin irritation.
Harmful in contact with skin. Causes skin irritation.
Harmful in contact with skin. Causes skin irritation.

Ingestion

: ZORBAX SB-Aq

Bonus-RP

SB-C18 Analytical HPLC

Harmful if swallowed. Can cause central nervous system (CNS) depression.
Harmful if swallowed. Can cause central nervous system (CNS) depression.
Harmful if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact

: ZORBAX SB-Aq

Bonus-RP

SB-C18 Analytical HPLC

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

Section 4. First aid measures

Inhalation

: ZORBAX SB-Aq

redness

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

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

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

Bonus-RP

SB-C18 Analytical HPLC

Skin contact

: ZORBAX SB-Aq

Adverse symptoms may include the following:

irritation

redness

reduced fetal weight

increase in fetal deaths

skeletal malformations

Adverse symptoms may include the following:

irritation

redness

reduced fetal weight

increase in fetal deaths

skeletal malformations

Bonus-RP

SB-C18 Analytical HPLC

Adverse symptoms may include the following:

irritation

redness

reduced fetal weight

increase in fetal deaths

skeletal malformations

Section 4. First aid measures

| | | |
|------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Ingestion | : ZORBAX SB-Aq | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | Bonus-RP | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Analytical HPLC | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

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

| | | |
|-----------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes to physician | : ZORBAX SB-Aq | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Bonus-RP | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | SB-C18 Analytical HPLC | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : ZORBAX SB-Aq | No specific treatment. |
| | Bonus-RP | No specific treatment. |
| | SB-C18 Analytical HPLC | No specific treatment. |
| Protection of first-aiders | : ZORBAX SB-Aq | 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. |
| | Bonus-RP | 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. |
| | SB-C18 Analytical HPLC | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |


See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

| | | |
|---------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | 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 SB-Aq Bonus-RP SB-C18 Analytical HPLC | 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

| | | |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific hazards arising from the chemical | :  ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. |
| Hazardous thermal decomposition products | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde. Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde. 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 SB-Aq Bonus-RP | 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. 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. |
|-----------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Section 5. Fire-fighting measures

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

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For non-emergency personnel | : ZORBAX SB-Aq | 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. |
| | Bonus-RP | 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 Analytical HPLC | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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. |

Section 6. Accidental release measures

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>For emergency responders : ZORBAX SB-Aq</p> <p>Bonus-RP</p> <p>SB-C18 Analytical HPLC</p> | <p>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". 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". 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".</p> |
| <p>6.2 Environmental precautions : ZORBAX SB-Aq</p> <p>Bonus-RP</p> <p>SB-C18 Analytical HPLC</p> | <p>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).</p> <p>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).</p> <p>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).</p> |
| <p>6.3 Methods and materials for containment and cleaning up</p> <p>Methods for cleaning up : ZORBAX SB-Aq</p> <p>Bonus-RP</p> <p>SB-C18 Analytical HPLC</p> | <p>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.</p> <p>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.</p> <p>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.</p> |

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : ZORBAX SB-Aq

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.

Bonus-RP

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.

SB-C18 Analytical HPLC

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-

Section 7. Handling and storage

| | | |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Advice on general occupational hygiene</p> | <p>: ZORBAX SB-Aq</p> <p>Bonus-RP</p> <p>SB-C18 Analytical HPLC</p> | <p>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>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 SB-Aq</p> <p>Bonus-RP</p> <p>SB-C18 Analytical HPLC</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.</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.</p> <p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original</p> |

Section 7. Handling and storage

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

7.3 Specific end use(s)

| | | |
|---------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recommendations | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. |
| Industrial sector specific solutions | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not applicable. Not applicable. Not applicable. |

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 SB-Aq Methanol | ACGIH TLV (United States, 3/2017). 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. TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m ³ 15 minutes. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m ³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m ³ 15 minutes. OSHA PEL (United States, 6/2016). TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours. |
| Bonus-RP Methanol | ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m ³ 8 hours. |

Section 8. Exposure controls/personal protection

| | |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SB-C18 Analytical HPLC Methanol</p> | <p>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, 6/2016). TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.</p> <p>ACGIH TLV (United States, 3/2017). 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, 6/2016). TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.</p> |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

Section 8. Exposure controls/personal protection

- 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 SB-Aq Bonus-RP SB-C18 Analytical HPLC | Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid) |
| Color | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |
| Odor | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |
| Odor threshold | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |
| pH | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |
| Melting point | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |
| Boiling point | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | Not available. Not available. Not available. |

Section 9. Physical and chemical properties

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

Section 10. Stability and reactivity

| | | |
|--------------------------------|------------------------|--------------------------------------------------------------------------------------------|
| 10.1 Reactivity | : ZORBAX SB-Aq | No specific test data related to reactivity available for this product or its ingredients. |
| | Bonus-RP | No specific test data related to reactivity available for this product or its ingredients. |
| | SB-C18 Analytical HPLC | No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : ZORBAX SB-Aq | The product is stable. |
| | Bonus-RP | The product is stable. |
| | SB-C18 Analytical HPLC | The product is stable. |

Section 10. Stability and reactivity

| | | |
|------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10.3 Possibility of hazardous reactions | : ZORBAX SB-Aq | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Bonus-RP | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | SB-C18 Analytical HPLC | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : ZORBAX SB-Aq | 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. |
| | Bonus-RP | 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 Analytical HPLC | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| 10.5 Incompatible materials | : ZORBAX SB-Aq | Reactive or incompatible with the following materials: oxidizing materials |
| | Bonus-RP | Reactive or incompatible with the following materials: oxidizing materials |
| | SB-C18 Analytical HPLC | Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride. |
| 10.6 Hazardous decomposition products | : ZORBAX SB-Aq | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Bonus-RP | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | SB-C18 Analytical HPLC | 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 SB-Aq Methanol | LC50 Inhalation Vapor | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Vapor | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |
| Bonus-RP Methanol | LC50 Inhalation Vapor | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Vapor | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |

Section 11. Toxicological information

| | | | | |
|-------------------------------------------|-----------------------|--------|-------------|---------|
| SB-C18 Analytical HPLC Methanol | LD50 Oral | Rat | 5600 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 145000 ppm | 1 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 SB-Aq Methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| Bonus-RP Methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| SB-C18 Analytical HPLC Methanol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 40 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |

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 |
|---------------------------------|------------|-------------------|---------------------------------------------------|
| ZORBAX SB-Aq Methanol | Category 1 | Not determined | central nervous system (CNS) and optic nerve |
| | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |
| Bonus-RP Methanol | Category 1 | Not determined | central nervous |

Section 11. Toxicological information

| | | | |
|-------------------------------------------|------------|-----------------|------------------------------------------------------------------------------------------------------|
| SB-C18 Analytical HPLC Methanol | Category 3 | Not applicable. | system (CNS) and optic nerve Respiratory tract irritation and Narcotic effects |
| | Category 1 | Not determined | central nervous system (CNS) and optic nerve Respiratory tract irritation and Narcotic effects |
| | Category 3 | Not applicable. | Respiratory tract irritation and Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC

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


Potential acute health effects

Eye contact

: ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC

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

Inhalation

:  ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC


Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
 Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact

: ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC

Harmful in contact with skin. Causes skin irritation.
 Harmful in contact with skin. Causes skin irritation.
 Harmful in contact with skin. Causes skin irritation.

Ingestion

:  ZORBAX SB-Aq
 Bonus-RP
 SB-C18 Analytical HPLC

Harmful if swallowed. Can cause central nervous system (CNS) depression.
 Harmful if swallowed. Can cause central nervous system (CNS) depression.
 Harmful if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

| | | |
|---------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : ZORBAX SB-Aq | Adverse symptoms may include the following: pain or irritation watering redness |
| | Bonus-RP | Adverse symptoms may include the following: pain or irritation watering redness |
| | SB-C18 Analytical HPLC | Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : ZORBAX SB-Aq | 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 |
| | Bonus-RP | 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 Analytical HPLC | 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 |
| Skin contact | : ZORBAX SB-Aq | Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | Bonus-RP | Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Analytical HPLC | Adverse symptoms may include the following: |

Section 11. Toxicological information

| | | |
|------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| | | irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : ZORBAX SB-Aq | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | Bonus-RP | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| | SB-C18 Analytical HPLC | 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 SB-Aq Bonus-RP SB-C18 Analytical HPLC | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Carcinogenicity | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Mutagenicity | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Teratogenicity | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | May damage the unborn child. May damage the unborn child. May damage the unborn child. |
| Developmental effects | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Fertility effects | : ZORBAX SB-Aq Bonus-RP SB-C18 Analytical HPLC | 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

Section 11. Toxicological information

| Route | ATE value |
|-------------------------------|--------------|
| ZORBAX SB-Aq | |
| Oral | 414.9 mg/kg |
| Dermal | 1244.8 mg/kg |
| Inhalation (vapors) | 12.45 mg/l |
| Bonus-RP | |
| Oral | 421.9 mg/kg |
| Dermal | 1265.8 mg/kg |
| Inhalation (vapors) | 12.66 mg/l |
| SB-C18 Analytical HPLC | |
| Oral | 367.6 mg/kg |
| Dermal | 1102.9 mg/kg |
| Inhalation (vapors) | 11.03 mg/l |

| | | |
|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other information | : ZORBAX SB-Aq | 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. |
| | Bonus-RP | 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 Analytical HPLC | Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. |

Section 12. Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------------------------|--------------------------------------|---------------------------------------|----------|
| ZORBAX SB-Aq 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 |
| Bonus-RP 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 |
| SB-C18 Analytical HPLC Methanol | Acute LC50 2500000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |

Section 12. Ecological information

| | | | |
|--|-------------------------------------|-----------------------------------|----------|
| | 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

Not available.

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------------------------|--------------------|-----|-----------|
| ZORBAX SB-Aq Methanol | -0.77 | <10 | low |
| Bonus-RP Methanol | -0.77 | <10 | low |
| SB-C18 Analytical HPLC 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 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 SB-Aq Methanol (I); Methyl alcohol (I) | 67-56-1 | Listed | U154 |
| Bonus-RP Methanol (I); Methyl alcohol (I) | 67-56-1 | Listed | U154 |
| SB-C18 Analytical HPLC Methanol (I); Methyl alcohol (I) | 67-56-1 | Listed | U154 |

Section 13. Disposal considerations

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

DOT Classification : **Reportable quantity** 20000 lbs / 9080 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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 Annex II of MARPOL and the IBC Code : 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

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : ZORBAX SB-Aq

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 (Unborn child) - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (central nervous system (CNS), optic nerve) - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (Narcotic effects) - Category 3
 Bonus-RP
 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 (Unborn child) - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (central nervous system (CNS), optic nerve) - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (Narcotic effects) - Category 3
 SB-C18 Analytical HPLC
 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 (Unborn child) - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
 (central nervous system (CNS), optic nerve) - Category 1
 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 SB-Aq | | |
| Organosilane bonded silica gel | ≥50 - ≤75 | COMBUSTIBLE DUSTS |
| Methanol | ≥10 - ≤25 | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Bonus-RP | | |
| Organosilane bonded silica gel | ≥50 - ≤75 | COMBUSTIBLE DUSTS |
| Methanol | ≥10 - ≤25 | FLAMMABLE LIQUIDS - Category 2 |

Section 15. Regulatory information

| | | |
|-----------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SB-C18 Analytical HPLC Organosilane bonded silica gel Methanol | $\geq 50 - \leq 75$ $\geq 25 - < 30$ | 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 (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 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 (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 SB-Aq Methanol | 67-56-1 | $\geq 10 - \leq 25$ |
| | Bonus-RP Methanol | 67-56-1 | $\geq 10 - \leq 25$ |
| | SB-C18 Analytical HPLC Methanol | 67-56-1 | $\geq 25 - < 30$ |
| Supplier notification | ZORBAX SB-Aq Methanol | 67-56-1 | $\geq 10 - \leq 25$ |
| | Bonus-RP Methanol | 67-56-1 | $\geq 10 - \leq 25$ |
| | SB-C18 Analytical HPLC Methanol | 67-56-1 | $\geq 25 - < 30$ |

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 |
|---------------------------------------------------------------------|---------------------------|---------------------------------|
| <input checked="" type="checkbox"/> ZORBAX SB-Aq Methanol | - | Yes. |
| Bonus-RP Methanol | - | Yes. |
| SB-C18 Analytical HPLC Methanol | - | Yes. |

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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. |
| Malaysia | : All components are listed or exempted. |
| New Zealand | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : <input checked="" type="checkbox"/> Not determined. |
| Turkey | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| United States | : All components are listed or exempted. |
| Viet Nam | : <input checked="" type="checkbox"/> Not determined. |

Section 16. Other information

History

Date of issue : 09/26/2018
Date of previous issue : 04/27/2017
Version : 3

Procedure used to derive the classification

| Classification | Justification |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZORBAX SB-Aq 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 (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 |
| Bonus-RP 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 (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 Analytical HPLC 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 (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - 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 |

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.