SAFETY DATA SHEET



Rapid Resolution Selectivity Method Development Kit, Part Number 5190-1435

Section 1. Identification

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

1.1 Product identifier

Product name : Rapid Resolution Selectivity Method Development Kit, Part Number 5190-1435

Part no. (chemical kit) : 5190-1435

Part no. : Eclipse Plus C18 959961-902

Eclipse Plus Phenyl-Hexyl 959961-912 ZORBAX Bonus-RP 864668-901

Validation date : 6/1/2021

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

Material uses : Analytical chemistry.

HPLC Column

Solvent volume: < 10 ml

Eclipse Plus C18 3.5 um, 4.6 x 100 mm Eclipse Plus Phenyl-Hexyl 4.6 x 100 mm, 3.5 um ZORBAX Bonus-RP 4.6 x 100 mm, 3.5 um

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 : Eclipse Plus C18 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Eclipse Plus Phenyl-Hexyl This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Eclipse Plus C18

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4

ZORBAX Bonus-RP

H315 SKIN IRRITATION - Category 2 H319 EYE IRRITATION - Category 2A

H360 TOXIC TO REPRODUCTION - Category 1B

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

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Section 2. Hazards identification

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

Category 3

Eclipse Plus Phenyl-Hexyl

H225 FLAMMABLE LIQUIDS - Category 2 H319 EYE IRRITATION - Category 2A

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ZORBAX Bonus-RP

H226 FLAMMABLE LIQUIDS - Category 3
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4

H315 SKIN IRRITATION - Category 2 H319 EYE IRRITATION - Category 2A

H360 TOXIC TO REPRODUCTION - Category 1B

H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

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

Category 3

2.2 GHS label elements

Hazard pictograms : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

ZORBAX Bonus-RP

Signal word : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP

Hazard statements : Eclipse Plus C18

Danger

Danger Danger

H225 - Highly flammable liquid and vapor.

H302 + H312 + H332 - Harmful if swallowed, in

contact with skin or if inhaled.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.
H360 - May damage fertility or the unborn child.
H370 - Causes damage to organs. (central nervous

system (CNS), optic nerve)

Eclipse Plus Phenyl-Hexyl H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure. (blood system, central nervous system (CNS), kidneys, liver)

H226 - Flammable liquid and vapor.

H302 + H312 + H332 - Harmful if swallowed. in

contact with skin or if inhaled. H315 - Causes skin irritation.

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Section 2. Hazards identification

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H360 - May damage fertility or the unborn child. H370 - Causes damage to organs. (central nervous

system (CNS), optic nerve)

Precautionary statements

Prevention : Eclipse Plus C18 P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

Eclipse Plus Phenyl-Hexyl P280 - Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P260 - Do not breathe vapor.

ZORBAX Bonus-RP P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing

and eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

: Eclipse Plus C18 P308 + P311 - IF exposed: Call a POISON Response

CENTER or doctor.

Eclipse Plus Phenyl-Hexyl P314 - Get medical advice or attention if you feel

unwell.

ZORBAX Bonus-RP P308 + P311 - IF exposed: Call a POISON

CENTER or doctor.

: Eclipse Plus C18 P403 + P235 - Store in a well-ventilated place. **Storage**

Keep cool.

P403 + P235 - Store in a well-ventilated place. Eclipse Plus Phenyl-Hexyl

Keep cool.

ZORBAX Bonus-RP P403 + P235 - Store in a well-ventilated place.

Keep cool.

Disposal Eclipse Plus C18 P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Eclipse Plus Phenyl-Hexyl P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

ZORBAX Bonus-RP P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

None known.

None known.

None known.

2.3 Other hazards

Hazards not otherwise

classified

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

None known. None known. None known.

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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

: Eclipse Plus C18
Eclipse Plus Phenyl-Hexyl
ZORBAX Bonus-RP

Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)

Ingredient name	%	CAS number
Eclipse Plus C18 Methanol	≥25 - <30	67-56-1
Eclipse Plus Phenyl-Hexyl Acetonitrile	≥10 - <22	75-05-8
ZORBAX Bonus-RP Methanol	≥10 - ≤25	67-56-1

Contains: Organosilane bonded silica gel.

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

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

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

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

Section 4. First aid measures

1 1	Deceription of	necessary first	aid magazirea
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Eye contact : Eclipse Plus C18

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.

center or physician

Eclipse Plus Phenyl-Hexyl 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.

ZORBAX 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.

Inhalation : Eclipse Plus C18 Remove victim to fresh air and keep at rest in a

position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth

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Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

Skin contact : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 following exposure or if feeling unwell. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 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 selfcontained 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.

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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

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Ingestion : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX 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. 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 following exposure or if feeling unwell. 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.

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 : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP

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

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: Eclipse Plus C18 Inhalation Harmful if inhaled. Causes damage to organs

> following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause

respiratory irritation.

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

No known significant effects or critical hazards. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May

cause drowsiness or dizziness. May cause

respiratory irritation.

Skin contact : Eclipse Plus C18 Harmful in contact with skin. Causes damage to

organs following a single exposure in contact with

skin. Causes skin irritation.

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

No known significant effects or critical hazards. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with

skin. Causes skin irritation.

: Eclipse Plus C18 Ingestion Harmful if swallowed. Causes damage to organs

following a single exposure if swallowed. Can cause central nervous system (CNS) depression. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Eclipse Plus C18 Adverse symptoms may include the following:

pain or irritation

watering redness

Adverse symptoms may include the following: Eclipse Plus Phenyl-Hexyl

pain or irritation

watering

redness

ZORBAX Bonus-RP Adverse symptoms may include the following:

pain or irritation

watering

redness

Inhalation : Eclipse Plus C18 Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Eclipse Plus Phenyl-Hexyl No specific data.

ZORBAX 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

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Skin contact : Eclipse Plus C18 Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

skeletal malformations

Eclipse Plus Phenyl-Hexyl No specific data.

ZORBAX Bonus-RP Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Eclipse Plus C18 Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Eclipse Plus Phenyl-Hexyl No specific data.

ZORBAX Bonus-RP 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 : Eclipse Plus C18 Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Eclipse Plus Phenyl-Hexyl In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

ZORBAX Bonus-RP Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Specific treatments : Eclipse Plus C18 No specific treatment.

Eclipse Plus Phenyl-Hexyl No specific treatment. ZORBAX Bonus-RP No specific treatment.

Protection of first-aiders : Eclipse Plus C18 No action shall be taken involving any personal risk

or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

Eclipse Plus Phenyl-Hexyl No action shall be taken involving any personal risk

or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

ZORBAX 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.

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See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

Use dry chemical, CO₂, water spray (fog) or foam. Use dry chemical, CO₂, water spray (fog) or foam. Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

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

: Eclipse Plus C18

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

explosion.

Eclipse Plus Phenyl-Hexyl

Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

explosion.

ZORBAX Bonus-RP

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 : Eclipse Plus C18

Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Formaldehyde.

Eclipse Plus Phenyl-Hexyl

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

cyanides

ZORBAX Bonus-RP

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

: Eclipse Plus C18

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Eclipse Plus Phenyl-Hexyl

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

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Section 5. Fire-fighting measures

ZORBAX Bonus-RP

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.

Special protective equipment for fire-fighters

: Eclipse Plus C18

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Eclipse Plus Phenyl-Hexyl

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

ZORBAX 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.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX 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. 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. 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.

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Section 6. Accidental release measures

For emergency responders : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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".

6.2 Environmental precautions

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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).

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).

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).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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

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.

via a licensed waste disposal contractor.

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Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX 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 explosionproof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating. lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosionproof 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.

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Section 7. Handling and storage

Advice on general occupational hygiene

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

7.2 Conditions for safe storage, including any incompatibilities

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent

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Section 7. Handling and storage

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: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

Industrial sector specific

solutions

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP

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

Not available. Not available. Not available.

Section 8. Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Eclipse Plus C18	
Methanol	ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 325 mg/m³ 15 minutes. STEL: 325 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.
Eclipse Plus Phenyl-Hexyl	
Acetonitrile	ACGIH TLV (United States, 3/2020). Absorbed through skin. TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 40 ppm 8 hours. TWA: 70 mg/m³ 8 hours.

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Section 8. Exposure controls/personal protection

ZORBAX Bonus-RP

Methanol

ACGIH TLV (United States, 3/2020). Absorbed through skin.

TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

Absorbed through skin.

TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2016).

Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours.

STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018).

TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Section 8. Exposure controls/personal protection

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

Odor

Odor threshold

Melting point

Physical state : Eclipse Plus C18 Solid. (containing flammable liquid)

Eclipse Plus Phenyl-Hexyl Solid.(containing flammable liquid) **ZORBAX Bonus-RP** Solid.(containing flammable liquid)

: Eclipse Plus C18 Color Not available.

> Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available. : Eclipse Plus C18 Not available.

Eclipse Plus Phenyl-Hexyl Not available.

ZORBAX Bonus-RP Not available. Eclipse Plus C18 Not available. Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available.

pН : Eclipse Plus C18 Not available.

> Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available. : Eclipse Plus C18 Not available. Eclipse Plus Phenyl-Hexyl Not available.

ZORBAX Bonus-RP Not available. : Eclipse Plus C18 Not available. **Boiling point** Eclipse Plus Phenyl-Hexyl Not available.

ZORBAX Bonus-RP Not available.

Flash point : Eclipse Plus C18 Closed cup: -18 to 23°C (-0.4 to 73.4°F)

Eclipse Plus Phenyl-Hexyl Closed cup: -18 to 23°C (-0.4 to 73.4°F) **ZORBAX Bonus-RP** Closed cup: 23 to 37.8°C (73.4 to 100°F)

Evaporation rate : Eclipse Plus C18 Not available.

Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available.

Flammability (solid, gas) : Eclipse Plus C18 Contains: Flammable liquid

Eclipse Plus Phenyl-Hexyl Contains: Flammable liquid **ZORBAX Bonus-RP** Contains: Flammable liquid

Lower and upper explosive

(flammable) limits

Relative density

Eclipse Plus C18

Not available. Eclipse Plus Phenyl-Hexyl Not available. ZORBAX Bonus-RP Not available.

: Eclipse Plus C18 Not available. Vapor pressure

Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available. Eclipse Plus C18 Not available.

Vapor density Eclipse Plus Phenyl-Hexyl Not available.

ZORBAX Bonus-RP Not available. : Eclipse Plus C18 Not available. Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available.

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Section 9. Physical and chemical properties

Solubility : Eclipse Plus C18 Mobile phase: Soluble

> Stationary phase: Insoluble Eclipse Plus Phenyl-Hexyl Mobile phase: Soluble

> Stationary phase: Insoluble Mobile phase: Soluble **ZORBAX Bonus-RP**

Stationary phase: Insoluble

Not available.

Not available.

Not available.

Not available.

Partition coefficient: n-

octanol/water

Viscosity

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

Auto-ignition temperature Eclipse Plus C18

Not available. Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available.

: Eclipse Plus C18 **Decomposition temperature**

Eclipse Plus Phenyl-Hexyl Not available. **ZORBAX Bonus-RP** Not available. : Eclipse Plus C18 Not available.

Eclipse Plus Phenyl-Hexyl Not available. ZORBAX Bonus-RP Not available.

Section 10. Stability and reactivity

No specific test data related to reactivity available 10.1 Reactivity : Eclipse Plus C18

for this product or its ingredients.

No specific test data related to reactivity available Eclipse Plus Phenyl-Hexyl

for this product or its ingredients.

No specific test data related to reactivity available **ZORBAX Bonus-RP**

for this product or its ingredients.

10.2 Chemical stability : Eclipse Plus C18

The product is stable. Eclipse Plus Phenyl-Hexyl The product is stable. **ZORBAX Bonus-RP** The product is stable.

10.3 Possibility of

hazardous reactions

: Eclipse Plus C18

Under normal conditions of storage and use,

hazardous reactions will not occur.

Eclipse Plus Phenyl-Hexyl Under normal conditions of storage and use.

hazardous reactions will not occur.

ZORBAX Bonus-RP Under normal conditions of storage and use.

hazardous reactions will not occur.

10.4 Conditions to avoid : Eclipse Plus C18 Avoid all possible sources of ignition (spark or

> flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources

of ignition.

Eclipse Plus Phenyl-Hexyl 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.

ZORBAX 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.

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Section 10. Stability and reactivity

10.5 Incompatible materials : Clipse Plus C18 Reactive or incompatible with the following

materials:

oxidizing materials. Incompatible with hydrogen

fluoride.

Eclipse Plus Phenyl-Hexyl Reactive or incompatible with the following

materials:

oxidizing materials. Incompatible with hydrogen

fluoride.

ZORBAX Bonus-RP Reactive or incompatible with the following

materials:

oxidizing materials. Incompatible with hydrogen

fluoride.

10.6 Hazardous decomposition products

: Eclipse Plus C18 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Eclipse Plus Phenyl-Hexyl Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

ZORBAX Bonus-RP 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
Eclipse Plus C18				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Eclipse Plus Phenyl-Hexyl				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
ZORBAX Bonus-RP				
Methanol	LC50 Inhalation Vapor	Rat	189.95 mg/l	1 hours
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	83.84 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
E clipse Plus C18					
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit		mg 40 mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	_
				mg	
Eclipse Plus Phenyl-Hexyl					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-

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	Skin - Mild irritant	Rabbit	-	uL 500 mg	-
ZORBAX Bonus-RP Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Eclipse Plus Phenyl-Hexyl Acetonitrile	Category 2		blood system, central nervous system (CNS), kidneys, liver

Aspiration hazard

Not available.

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Information on the likely routes of exposure

: Eclipse Plus C18 Routes of entry anticipated: Oral, Dermal,

Inhalation.

Eclipse Plus Phenyl-Hexyl Routes of entry anticipated: Oral, Dermal,

Inhalation.

ZORBAX Bonus-RP Routes of entry anticipated: Oral, Dermal,

Inhalation.

Potential acute health effects

Eye contact : Eclipse Plus C18 Causes serious eye irritation.

Eclipse Plus Phenyl-Hexyl Causes serious eye irritation. ZORBAX Bonus-RP Causes serious eye irritation.

Inhalation : Clipse Plus C18 Harmful if inhaled. Causes damage to organs

following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause

respiratory irritation.

Eclipse Plus Phenyl-Hexyl No known significant effects or critical hazards. ZORBAX Bonus-RP Harmful if inhaled. Causes damage to organs

following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause

respiratory irritation.

Skin contact : Eclipse Plus C18 Harmful in contact with skin. Causes damage to

organs following a single exposure in contact with

skin. Causes skin irritation.

Eclipse Plus Phenyl-Hexyl No known significant effects or critical hazards. ZORBAX Bonus-RP Harmful in contact with skin. Causes damage to

organs following a single exposure in contact with

skin. Causes skin irritation.

Ingestion : Eclipse Plus C18 Harmful if swallowed. Causes damage to organs

following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Eclipse Plus Phenyl-Hexyl No kno ZORBAX Bonus-RP Harmfu

No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Eclipse Plus C18 Adverse symptoms may include the following:

pain or irritation

watering

redness

Eclipse Plus Phenyl-Hexyl Adverse symptoms may include the following:

pain or irritation

watering redness

ZORBAX Bonus-RP Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Eclipse Plus C18 Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths

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Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

skeletal malformations No specific data.

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 : Eclipse Plus C18

Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations No specific data.

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Eclipse Plus C18 Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations No specific data.

Eclipse Plus Phenyl-Hexyl **ZORBAX Bonus-RP**

Adverse symptoms may include the following:

No known significant effects or critical hazards.

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

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Carcinogenicity

Potential immediate

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Eclipse Plus C18

> Eclipse Plus Phenyl-Hexyl May cause damage to organs through prolonged or

> > repeated exposure.

ZORBAX Bonus-RP

No known significant effects or critical hazards. Eclipse Plus C18 No known significant effects or critical hazards.

Eclipse Plus Phenyl-Hexyl No known significant effects or critical hazards. **ZORBAX Bonus-RP** No known significant effects or critical hazards.

Mutagenicity : Eclipse Plus C18

No known significant effects or critical hazards. Eclipse Plus Phenyl-Hexyl No known significant effects or critical hazards. **ZORBAX Bonus-RP** No known significant effects or critical hazards.

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Reproductive toxicity

: Eclipse Plus C18
Eclipse Plus Phenyl-Hexyl
ZORBAX Bonus-RP

May damage fertility or the unborn child. No known significant effects or critical hazards. May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Eclipse Plus C18					
Eclipse Plus C18	366.3	1098.9	N/A	11	N/A
Methanol	100	300	N/A	3	N/A
Eclipse Plus Phenyl-Hexyl					
Eclipse Plus Phenyl-Hexyl	2475.2	5445.5	N/A	54.5	N/A
Acetonitrile	500	1100	N/A	11	N/A
ZORBAX Bonus-RP					
ZORBAX Bonus-RP	434.8	1304.3	N/A	13	N/A
Methanol	100	300	N/A	3	N/A

Eclipse Plus Phenyl-Hexyl

blurred or double vision, . Eye contact can result in corneal damage or blindness. Repeated or

prolonged exposure to the substance can produce

liver damage. Not available.

ZORBAX 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.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Eclipse Plus C18			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Eclipse Plus Phenyl-Hexyl			
Acetonitrile	Acute IC50 3685000 μg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
ZORBAX Bonus-RP			
Methanol	Acute EC50 2736 mg/l Marine water	Algae - Ulva pertusa	96 hours

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. 0	Crustaceans - Crangon crangon -	48 hours
	Adult	
Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
	Neonate	
	Fish - Danio rerio - Egg	96 hours
Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Eclipse Plus Phenyl-Hexyl Acetonitrile	OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)		dily - 21 days	-		Activated sludge
Draduct/ingradient name	Aquatia half life	•	Dhotolygia	•	Diadag	rodobility

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Eclipse Plus C18 Methanol	-	-	Readily
Eclipse Plus Phenyl-Hexyl Acetonitrile	-	-	Readily
ZORBAX Bonus-RP Methanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Eclipse Plus C18 Methanol	-0.77	<10	low
Eclipse Plus Phenyl-Hexyl Acetonitrile	-0.34	3	low
ZORBAX Bonus-RP 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

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Section 13. Disposal considerations

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
Eclipse Plus C18 Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
Eclipse Plus Phenyl-Hexyl Acetonitrile (I,T)	75-05-8	Listed	U003
ZORBAX Bonus-RP Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

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

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

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

Section 14. Transport information

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

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

IATA

Additional information

Remarks: Special provisions

DOT: 47 TDG: 56 MX: 216 IATA: A46 IMDG: 216

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

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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) PAIR: Acetonitrile

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Acetonitrile

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

: Not listed

Class II Substances

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Clipse Plus C18 FLAMMABLE LIQUIDS - Category 2

ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGÁN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Eclipse Plus Phenyl-Hexyl FLAMMABLE LIQUIDS - Category 2
EYE IRRITATION - Category 2A

ZORBAX Bonus-RP FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Respiratory tract irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

(Narcotic effects) - Category 3

Composition/information on ingredients

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

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		Category 3
Eclipse Plus Phenyl-Hexyl Organosilane bonded silica gel Acetonitrile	≥50 - ≤75 ≥10 - <22	COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ZORBAX Bonus-RP Organosilane bonded silica gel Methanol	≥50 - ≤75 ≥10 - ≤25	COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Eclipse Plus C18 Methanol	67-56-1	≥25 - <30
	Eclipse Plus Phenyl-Hexyl Acetonitrile	75-05-8	≥10 - <22
	ZORBAX Bonus-RP Methanol	67-56-1	≥10 - ≤25
Supplier notification	Eclipse Plus C18 Methanol	67-56-1	≥25 - <30
	Eclipse Plus Phenyl-Hexyl Acetonitrile	75-05-8	≥10 - <22
	ZORBAX Bonus-RP Methanol	67-56-1	≥10 - ≤25

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;

ACETONITRILE

New York : The following components are listed: Methanol; Acetonitrile; Ethanenitrile **New Jersey**

: The following components are listed: METHYL ALCOHOL; METHANOL;

ACETONITRILE; CYANOMETHANE

Pennsylvania : The following components are listed: METHANOL; ACETONITRILE

California Prop. 65

MARNING: 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.

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Section 15. Regulatory information

Ingredient name	No significant risk level	Maximum acceptable dosage level
Eclipse Plus C18 Methanol	-	Yes.
ZORBAX Bonus-RP Methanol	-	Yes.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : Not determined.

China : All components are listed or exempted.Europe : All components are listed or exempted.

Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : All components are listed or exempted.

United States : All components are active or exempted.

Viet Nam : Not determined.

Section 16. Other information

History

Date of issue : 06/01/2021
Date of previous issue : 09/26/2018

Version : 4

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

UN = United Nations

Procedure used to derive the classification

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

[✓] Indicates information that has changed from previously issued version.

Notice to reader

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