

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	: 2/27/2024		

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

Identified uses	: <input checked="" type="checkbox"/> Analytical chemistry. HPLC column Solvent volume: < 10 ml	
	: <input checked="" type="checkbox"/> Eclipse Plus C18	3.5 µm, 4.6 x 100 mm
	: Eclipse Plus Phenyl-Hexyl	4.6 x 100 mm, 3.5 µm
	: ZORBAX Bonus-RP	4.6 x 100 mm, 3.5 µm

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
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1.4 Emergency telephone number

In case of emergency	: CHEMTREC®: 1-800-424-9300
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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).
	: ZORBAX Bonus-RP	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
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
Eclipse Plus Phenyl-Hexyl	
H225	FLAMMABLE LIQUIDS - Category 2

Section 2. Hazards identification

H319 EYE IRRITATION - Category 2A

ZORBAX 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
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

2.2 GHS label elements

Hazard pictograms

: Eclipse Plus C18



Eclipse Plus Phenyl-Hexyl



ZORBAX Bonus-RP



Signal word

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

Danger

Danger

Danger

Hazard statements

: Eclipse Plus C18

H225 - Highly flammable liquid and vapor.
 H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H370 - Causes damage to organs.

Eclipse Plus Phenyl-Hexyl

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

ZORBAX Bonus-RP

H225 - Highly flammable liquid and vapor.

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled.

H370 - Causes damage to organs.

Precautionary statements

Prevention

: Eclipse Plus C18

P280 - Wear protective gloves and protective clothing.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P233 - Keep container tightly closed.

P260 - Do not breathe vapor.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

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.

P241 - Use explosion-proof electrical, ventilating or

Section 2. Hazards identification

	ZORBAX Bonus-RP	lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P233 - Keep container tightly closed. P280 - Wear protective gloves and protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P233 - Keep container tightly closed. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	: Eclipse Plus C18	P308 + P311 - IF exposed: Call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
	Eclipse Plus Phenyl-Hexyl	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 advice or attention.
	ZORBAX Bonus-RP	P308 + P311 - IF exposed: Call a POISON CENTER or doctor. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
Storage	: Eclipse Plus C18	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Eclipse Plus Phenyl-Hexyl	P403 + P235 - Store in a well-ventilated place. 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.

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 Mixture (encapsulated in article)
 Eclipse Plus Phenyl-Hexyl Mixture (encapsulated in article)
 ZORBAX Bonus-RP 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 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	: 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.
	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.

Section 4. First aid measures

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

Eclipse Plus Phenyl-Hexyl

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 if adverse health effects persist or are severe. 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.

ZORBAX 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.

Skin contact

: Eclipse Plus C18

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

Eclipse Plus Phenyl-Hexyl

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

ZORBAX Bonus-RP

Wash with plenty of soap and water. Remove

Section 4. First aid measures

Ingestion

: Eclipse Plus C18

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.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention if adverse health effects persist or are severe. 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. 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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

No known significant effects or critical hazards.

Causes serious eye irritation.

No known significant effects or critical hazards.

Section 4. First aid measures

Inhalation	: Eclipse Plus C18	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
	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.
Skin contact	: Eclipse Plus C18	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
	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.
Ingestion	: Eclipse Plus C18	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.
	Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Eye contact	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	ZORBAX Bonus-RP	No specific data.
	: Eclipse Plus C18	No specific data.
Skin contact	Eclipse Plus Phenyl-Hexyl	No specific data.
	ZORBAX Bonus-RP	No specific data.
Ingestion	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	No specific data.
	ZORBAX Bonus-RP	No specific data.

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

Section 4. First aid measures

ZORBAX Bonus-RP

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

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 : 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

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 : 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

Section 5. Fire-fighting measures

Formaldehyde.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: Eclipse Plus C18
	Eclipse Plus Phenyl-Hexyl
	ZORBAX 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.

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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
	Eclipse Plus Phenyl-Hexyl
	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.

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

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

Section 6. Accidental release measures

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.

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".

For emergency responders : Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

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).

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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 via a licensed waste disposal contractor.

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Section 6. Accidental release measures

via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : Eclipse Plus C18

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

Eclipse Plus Phenyl-Hexyl

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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.

ZORBAX Bonus-RP

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

Section 7. Handling and storage

Advice on general occupational hygiene	: Eclipse Plus C18	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Eclipse Plus Phenyl-Hexyl	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.
	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.
7.2 Conditions for safe storage, including any incompatibilities	: Eclipse Plus C18	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Eclipse Plus Phenyl-Hexyl	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.
	ZORBAX Bonus-RP	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

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 applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	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, 1/2023). 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, 10/2020). 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, 5/2018). TWA: 200 ppm 8 hours. TWA: 260 mg/m ³ 8 hours. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. STEL: 325 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. C: 1000 ppm TWA: 260 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Eclipse Plus Phenyl-Hexyl Acetonitrile	ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 20 ppm 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 40 ppm 8 hours.

Section 8. Exposure controls/personal protection

<p>ZORBAX Bonus-RP Methanol</p>	<p>TWA: 70 mg/m³ 8 hours. STEL: 60 ppm 15 minutes. STEL: 105 mg/m³ 15 minutes. NIOSH REL (United States, 10/2020). 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. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. STEL: 105 mg/m³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 70 mg/m³ 8 hours. TWA: 40 ppm 8 hours.</p> <p>ACGIH TLV (United States, 1/2023). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. CAL OSHA PEL (United States, 5/2018). Absorbed through skin. STEL: 325 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. C: 1000 ppm TWA: 260 mg/m³ 8 hours. TWA: 200 ppm 8 hours.</p>
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Biological exposure indices

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

Section 8. Exposure controls/personal protection

Methanol	ACGIH BEI (United States, 1/2023) BEI: 15 mg/l, methanol [in urine]. Sampling time: end of shift.
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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: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

- | | | |
|-----------------------|---------------------------|--------------------------------------|
| Physical state | : Eclipse Plus C18 | Solid. (containing flammable liquid) |
| | Eclipse Plus Phenyl-Hexyl | Solid.(containing flammable liquid) |
| | ZORBAX Bonus-RP | Solid.(containing flammable liquid) |
| Color | : Eclipse Plus C18 | Not available. |
| | Eclipse Plus Phenyl-Hexyl | Not available. |
| | ZORBAX Bonus-RP | Not available. |

Section 9. Physical and chemical properties and safety characteristics

Odor	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
Odor threshold	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
pH	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
Melting point/freezing point	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
Boiling point, initial boiling point, and boiling range	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
Flash point	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.] Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.] Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.]
Evaporation rate	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.
Flammability	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not applicable. Not applicable. Not applicable.
Lower and upper explosion limit/flammability limit	:	Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not available. Not available. Not available.

Vapor pressure	:	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		Eclipse Plus C18						
		Methanol	126.96329	16.9	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-
		Eclipse Plus Phenyl-Hexyl						
		Acetonitrile	70.88853	9.5	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-
		ZORBAX Bonus-RP						
		Methanol	126.96329	16.9	-	-	-	-
		water	17.5	2.3	-	92.258	12.3	-

Section 9. Physical and chemical properties and safety characteristics

Relative vapor density : Eclipse Plus C18 Not available.
Eclipse Plus Phenyl-Hexyl Not available.
ZORBAX Bonus-RP Not available.

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

Solubility(ies)	Media	Result
	Eclipse Plus C18	
	Mobile phase	Soluble
	Stationary phase	Insoluble
	Eclipse Plus Phenyl-Hexyl	
	Mobile phase	Soluble
	Stationary phase	Insoluble
	ZORBAX Bonus-RP	
	Mobile phase	Soluble
	Stationary phase	Insoluble

Partition coefficient: n-octanol/water : Eclipse Plus C18 Not applicable.
Eclipse Plus Phenyl-Hexyl Not applicable.
ZORBAX Bonus-RP Not applicable.

Auto-ignition temperature	Ingredient name	°C	°F	Method
	Eclipse Plus C18			
	Methanol	455	851	DIN 51794
	Eclipse Plus Phenyl-Hexyl			
	Acetonitrile	524	975.2	-
	ZORBAX Bonus-RP			
	Methanol	455	851	DIN 51794

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

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

Particle characteristics

Median particle size : Eclipse Plus C18 Not applicable.
Eclipse Plus Phenyl-Hexyl Not applicable.
ZORBAX Bonus-RP Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : Eclipse Plus C18 No specific test data related to reactivity available for this product or its ingredients.
Eclipse Plus Phenyl-Hexyl No specific test data related to reactivity available for this product or its ingredients.
ZORBAX Bonus-RP No specific test data related to reactivity available 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.

Section 10. Stability and reactivity

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.
10.5 Incompatible materials	: Eclipse Plus C18	Reactive or incompatible with the following materials: oxidizing materials
	Eclipse Plus Phenyl-Hexyl	Reactive or incompatible with the following materials: oxidizing materials
	ZORBAX Bonus-RP	Reactive or incompatible with the following materials: oxidizing materials
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	-

Section 11. Toxicological information

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
Eclipse Plus C18 Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	40 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
Eclipse Plus Phenyl-Hexyl Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
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
ZORBAX Bonus-RP Methanol	Category 1	-	central nervous system (CNS), optic nerve

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	: Eclipse Plus C18	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Eclipse Plus Phenyl-Hexyl	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	ZORBAX Bonus-RP	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
<u>Potential acute health effects</u>		
Eye contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if inhaled. Causes damage to organs following a single exposure if inhaled. No known significant effects or critical hazards. Harmful if inhaled. Causes damage to organs following a single exposure if inhaled.
Skin contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. No known significant effects or critical hazards. Harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin.
Ingestion	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. No known significant effects or critical hazards. Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	Adverse symptoms may include the following: pain or irritation watering redness
	ZORBAX Bonus-RP	No specific data.
Inhalation	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	No specific data.
	ZORBAX Bonus-RP	No specific data.
Skin contact	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	No specific data.
	ZORBAX Bonus-RP	No specific data.
Ingestion	: Eclipse Plus C18	No specific data.
	Eclipse Plus Phenyl-Hexyl	No specific data.
	ZORBAX Bonus-RP	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Eclipse Plus C18 Eclipse Plus C18 Methanol	366.3 100	1098.9 300	N/A N/A	11.0 3	N/A N/A
Eclipse Plus Phenyl-Hexyl Eclipse Plus Phenyl-Hexyl Acetonitrile	2475.2 500	5445.5 1100	N/A N/A	54.5 11	N/A N/A
ZORBAX Bonus-RP ZORBAX Bonus-RP Methanol	434.8 100	1304.3 300	N/A N/A	13.0 3	N/A N/A

Other information : Eclipse Plus C18

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. Narcotic effect. May cause nervous system disturbances.

Adverse symptoms may include the following:
blurred or double vision, . Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Narcotic effect. May cause nervous system disturbances.

Section 12. Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Eclipse Plus Phenyl-Hexyl Acetonitrile	OECD 310 Ready Biodegradability - CO ₂ in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge

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

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	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 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)	67-56-1	Listed	U154
Eclipse Plus Phenyl-Hexyl Acetonitrile (I,T)	75-05-8	Listed	U003
ZORBAX Bonus-RP Methanol (I)	67-56-1	Listed	U154

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

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

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

Section 14. Transport information

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

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

IATA

Additional information

Remarks: Special provisions

DOT: 47

TDG: 56

MX: 216

IATA: A46

IMDG: 216

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) 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 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification

: Eclipse Plus C18

Eclipse Plus Phenyl-Hexyl

ZORBAX Bonus-RP

FLAMMABLE LIQUIDS - Category 2
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4
 ACUTE TOXICITY (inhalation) - Category 4
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
 FLAMMABLE LIQUIDS - Category 2
 EYE IRRITATION - Category 2A
 FLAMMABLE LIQUIDS - Category 3
 ACUTE TOXICITY (oral) - Category 4
 ACUTE TOXICITY (dermal) - Category 4

Section 15. Regulatory information

ACUTE TOXICITY (inhalation) - Category 4
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
 Category 1

Composition/information on ingredients

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

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; ACETONITRILE
New York : The following components are listed: Methanol; Acetonitrile
New Jersey : The following components are listed: METHYL ALCOHOL; ACETONITRILE
Pennsylvania : The following components are listed: METHANOL; ACETONITRILE

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

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
Eclipse Plus C18 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1	Expert judgment Calculation method Calculation method Calculation method Calculation method
Eclipse Plus Phenyl-Hexyl FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A	Expert judgment Calculation method

Section 16. Other information

ZORBAX Bonus-RP

FLAMMABLE LIQUIDS - Category 2

ACUTE TOXICITY (oral) - Category 4

ACUTE TOXICITY (dermal) - Category 4

ACUTE TOXICITY (inhalation) - Category 4

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

Expert judgment

Calculation method

Calculation method

Calculation method

Calculation method

History

Date of issue/Date of revision : 02/27/2024

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Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

N/A = Not available

UN = United Nations

📌 Indicates information that has changed from previously issued version.

Notice to reader

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