

SAFETY DATA SHEET



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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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. (Kit)	: 5190-1435		
Part No.	: Eclipse Plus C18	959961-902	
	: Eclipse Plus Phenyl-Hexyl	959961-912	
	: ZORBAX Bonus-RP	864668-901	

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

Identified uses	
Analytical chemistry. HPLC Column Solvent volume: < 10 ml	
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

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

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

Product definition	: Eclipse Plus C18	Mixture (encapsulated in article)
	: Eclipse Plus Phenyl-Hexyl	Mixture (encapsulated in article)
	: ZORBAX Bonus-RP	Mixture (encapsulated in article)

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 2: Hazards identification

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
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - 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
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms



Signal word

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

Hazard statements

Eclipse Plus C18	GHS02 - Highly flammable liquid and vapour. GHS07 - Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. GHS08 - Causes damage to organs.
Eclipse Plus Phenyl-Hexyl	GHS02 - Highly flammable liquid and vapour. GHS07 - Causes serious eye irritation.
ZORBAX Bonus-RP	GHS02 - Flammable liquid and vapour. GHS07 - Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. GHS08 - Causes damage to organs.

Precautionary statements

Prevention

Eclipse Plus C18	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P260 - Do not breathe vapour.
Eclipse Plus Phenyl-	P280 - Wear protective gloves. Wear eye or face protection.

SECTION 2: Hazards identification

	Hexyl	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
	ZORBAX Bonus-RP	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P260 - Do not breathe vapour.
Response	: Eclipse Plus C18	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	Eclipse Plus Phenyl-Hexyl	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	ZORBAX Bonus-RP	P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	P235 - Keep cool. P235 - Keep cool. P235 - Keep cool.
Disposal	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	- methanol Not applicable. - methanol
Supplemental label elements	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: 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.

3.1 Substances : Eclipse Plus C18 Mixture (encapsulated in article)
 Eclipse Plus Phenyl-Hexyl Mixture (encapsulated in article)
 ZORBAX Bonus-RP Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Eclipse Plus C18 Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - <30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Eclipse Plus Phenyl-Hexyl Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥10 - <25	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
ZORBAX Bonus-RP Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥10 - ≤25	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above.	[1] [2]

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.

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.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of 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

SECTION 4: First aid measures**Inhalation**

: Eclipse Plus C18

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.

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 skin thoroughly with soap and water or use recognised skin cleanser. 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.

SECTION 4: First aid measures**Ingestion**

: Eclipse Plus C18

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.

Eclipse Plus Phenyl-Hexyl

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 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.

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.

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.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

SECTION 4: First aid measures

Eye contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No known significant effects or critical hazards. Harmful if inhaled. No known significant effects or critical hazards.
Skin contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if inhaled. Harmful in contact with skin. No known significant effects or critical hazards. Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if swallowed. No known significant effects or critical hazards. Harmful if swallowed.

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Eclipse Plus C18	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Eclipse Plus Phenyl-Hexyl	Use dry chemical, CO ₂ , water spray (fog) or foam.
	ZORBAX Bonus-RP	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Eclipse Plus C18	Do not use water jet.
	Eclipse Plus Phenyl-Hexyl	Do not use water jet.
	ZORBAX Bonus-RP	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Eclipse Plus C18	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
	Eclipse Plus Phenyl-Hexyl	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
	ZORBAX Bonus-RP	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: Eclipse Plus C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Formaldehyde. 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. Formaldehyde.

5.3 Advice for firefighters

Special precautions 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 area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	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.

SECTION 5: Firefighting measures

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	: Eclipse Plus C18	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Eclipse Plus Phenyl-Hexyl	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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: Eclipse Plus C18	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Eclipse Plus Phenyl-Hexyl	If specialised 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".
	ZORBAX Bonus-RP	If specialised 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".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: Eclipse Plus C18	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Eclipse Plus Phenyl-Hexyl	Avoid dispersal of spilt 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).
	ZORBAX Bonus-RP	Avoid dispersal of spilt 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 material for containment and cleaning up

Methods for cleaning up	: Eclipse Plus C18	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Eclipse Plus Phenyl-Hexyl	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.
	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.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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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 vapour 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 vapour 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.

SECTION 7: Handling and storage

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 vapour 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.

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**Storage**

: 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

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 unlabelled containers. Use appropriate containment to avoid

SECTION 7: Handling and storage

ZORBAX Bonus-RP

environmental contamination.

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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
Eclipse Plus C18 Methanol	500	5000
ZORBAX Bonus-RP Methanol	500	5000

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Eclipse Plus C18 H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000
Eclipse Plus Phenyl-Hexyl P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
ZORBAX Bonus-RP H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000

7.3 Specific end use(s)

Recommendations	: Eclipse Plus C18	Industrial applications, Professional applications.
	Eclipse Plus Phenyl-Hexyl	Industrial applications, Professional applications.
	ZORBAX Bonus-RP	Industrial applications, Professional applications.
Industrial sector specific solutions	: Eclipse Plus C18	Not applicable.
	Eclipse Plus Phenyl-Hexyl	Not applicable.
	ZORBAX Bonus-RP	Not applicable.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Eclipse Plus C18 Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Eclipse Plus Phenyl-Hexyl Acetonitrile	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 40 ppm 8 hours. TWA: 68 mg/m ³ 8 hours.
ZORBAX Bonus-RP Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

SECTION 8: Exposure controls/personal 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- 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.
- 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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**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)
Colour	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Odour	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Odour threshold	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
pH	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Melting point/freezing point	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Initial boiling point and boiling range	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Flash point	: Eclipse Plus C18	Closed cup: -18 to 23°C
	Eclipse Plus Phenyl-Hexyl	Closed cup: -18 to 23°C
	ZORBAX Bonus-RP	Closed cup: 23 to 37.8°C

SECTION 9: Physical and chemical properties

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
Upper/lower flammability or explosive limits	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Vapour pressure	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Vapour 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)	: 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 available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Auto-ignition temperature	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
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.
Explosive properties	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.
Oxidising properties	: Eclipse Plus C18	Not available.
	Eclipse Plus Phenyl-Hexyl	Not available.
	ZORBAX Bonus-RP	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Eclipse Plus C18 Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Eclipse Plus Phenyl-Hexyl Acetonitrile	LC50 Inhalation Vapour	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
ZORBAX Bonus-RP				

SECTION 11: Toxicological information

Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Acute toxicity estimates

Route	ATE value
Eclipse Plus C18 Oral Dermal Inhalation (vapours)	366.3 mg/kg 1098.9 mg/kg 10.99 mg/l
Eclipse Plus Phenyl-Hexyl Oral Dermal Inhalation (vapours)	2475.2 mg/kg 5445.5 mg/kg 54.46 mg/l
ZORBAX Bonus-RP Oral Dermal Inhalation (vapours)	434.8 mg/kg 1304.3 mg/kg 13.04 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Eclipse Plus C18 Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Eclipse Plus Phenyl-Hexyl Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
ZORBAX Bonus-RP Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Eclipse Plus C18 Methanol	Category 1	Not determined	Not determined
ZORBAX Bonus-RP Methanol	Category 1	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
<u>Potential acute health effects</u>		
Inhalation	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if inhaled. No known significant effects or critical hazards. Harmful if inhaled.
Ingestion	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful if swallowed. No known significant effects or critical hazards. Harmful if swallowed.
Skin contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	Harmful in contact with skin. No known significant effects or critical hazards. Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
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.
<u>Symptoms related to the physical, chemical and toxicological characteristics</u>		
Inhalation	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific data. No specific data. No specific data.
Ingestion	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific data. No specific data. No specific data.
Skin contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific data. No specific data. Adverse symptoms may include the following: irritation dryness cracking
Eye contact	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl ZORBAX Bonus-RP	No specific data. Adverse symptoms may include the following: pain or irritation watering redness No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

SECTION 11: Toxicological information

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. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
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.
Teratogenicity	: 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.
Developmental effects	: 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.
Fertility effects	: 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.
Other information	: Eclipse Plus C18 Eclipse Plus Phenyl-Hexyl 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. Not available. 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 24500000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	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 24500000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours

SECTION 12: Ecological information

	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
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12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Eclipse Plus Phenyl-Hexyl Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

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 soilSoil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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.

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Eclipse Plus C18	Not applicable.
	Eclipse Plus Phenyl-Hexyl	Not applicable.
	ZORBAX Bonus-RP	Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Industrial emissions (integrated pollution prevention and control) - Water : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name
Eclipse Plus C18 Methanol
ZORBAX Bonus-RP Methanol

Danger criteria

SECTION 15: Regulatory information

Category

Eclipse Plus C18

H3: STOT Single exposure 1
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

Eclipse Plus Phenyl-Hexyl

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

ZORBAX Bonus-RP

H3: STOT Single exposure 1
P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: All components are listed or exempted.
Canada	: Not determined.
China	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: All components are listed or exempted.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

SECTION 16: Other information

Classification	Justification
<p>Eclipse Plus C18 Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370</p> <p>Eclipse Plus Phenyl-Hexyl Flam. Liq. 2, H225 Eye Irrit. 2, H319</p> <p>ZORBAX Bonus-RP Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370</p>	<p>On basis of test data Calculation method Calculation method Calculation method Calculation method</p> <p>On basis of test data Calculation method</p> <p>On basis of test data Calculation method Calculation method Calculation method Calculation method</p>

Full text of abbreviated H statements

<p>Eclipse Plus C18 H225 H301 H302 H311 H312 H331 H332 H370</p> <p>Eclipse Plus Phenyl-Hexyl H225 H302 H312 H319 H332</p> <p>ZORBAX Bonus-RP H225 H226 H301 H302 H311 H312 H331 H332 H370</p>	<p>Highly flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Toxic if inhaled. Harmful if inhaled. Causes damage to organs.</p> <p>Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.</p> <p>Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Harmful in contact with skin. Toxic if inhaled. Harmful if inhaled. Causes damage to organs.</p>
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Full text of classifications [CLP/GHS]

<p>Eclipse Plus C18 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Flam. Liq. 2, H225 STOT SE 1, H370</p> <p>Eclipse Plus Phenyl-Hexyl Acute Tox. 4, H302 Acute Tox. 4, H312</p>	<p>ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1</p> <p>ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4</p>
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SECTION 16: Other information

Acute Tox. 4, H332 Eye Irrit. 2, H319 Flam. Liq. 2, H225	ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2
ZORBAX Bonus-RP Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Flam. Liq. 2, H225 Flam. Liq. 3, H226 STOT SE 1, H370	ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

Date of issue/ Date of revision : 25/04/2017

Date of previous issue : No previous validation.

Version : 1

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