

# SAFETY DATA SHEET



RRHT Selectivity Method Development Kit - 2.1mm ID, Part Number 5190-1431

## 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** : RRHT Selectivity Method Development Kit - 2.1mm ID, Part Number 5190-1431  
**Part no. (chemical kit)** : 5190-1431  
**Part no.** : Eclipse Plus C18 959741-902  
Eclipse Plus PhHex 959741-912  
Bonus-RP 827768-901

### 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 2.1 x 50 mm, 1.8um, 600 bar  
Eclipse Plus PhHex 2.1 x 50 mm, 1.8um, 600 bar  
Bonus-RP 2.1 x 50 mm, 1.8 um 600 bar  
**Uses advised against** : None known.

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
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 PhHex Mixture (encapsulated in article)  
Bonus-RP Mixture (encapsulated in article)

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

##### Eclipse Plus C18

H225 FLAMMABLE LIQUIDS Category 2  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

##### Eclipse Plus PhHex

H225 FLAMMABLE LIQUIDS Category 2  
H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

## SECTION 2: Hazards identification

### Bonus-RP

H225	FLAMMABLE LIQUIDS	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
Eclipse Plus C18	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Eclipse Plus PhHex	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	
Bonus-RP	The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.	

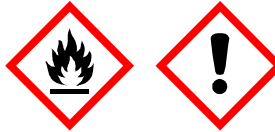
See Section 16 for the full text of the H statements declared above.

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

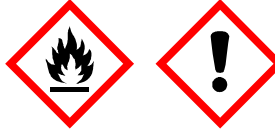
### 2.2 Label elements

#### Hazard pictograms

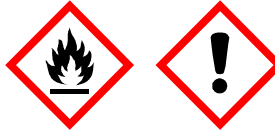
: Eclipse Plus C18



Eclipse Plus PhHex



Bonus-RP



#### Signal word

: Eclipse Plus C18 Danger  
 Eclipse Plus PhHex Danger  
 Bonus-RP Danger

#### Hazard statements

: Eclipse Plus C18 H225 - Highly flammable liquid and vapour.  
 H319 - Causes serious eye irritation.  
 Eclipse Plus PhHex H225 - Highly flammable liquid and vapour.  
 H319 - Causes serious eye irritation.  
 Bonus-RP H225 - Highly flammable liquid and vapour.  
 H319 - Causes serious eye irritation.

#### Precautionary statements

##### Prevention

: Eclipse Plus C18 P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Eclipse Plus PhHex P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Bonus-RP P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Response

: Eclipse Plus C18 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.  
 Eclipse Plus PhHex 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.  
 Bonus-RP P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 2: Hazards identification

		P337 + P313 - If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: Eclipse Plus C18  Eclipse Plus PhHex  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.
<b>Hazardous ingredients</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not applicable. Not applicable. Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: Eclipse Plus C18  Eclipse Plus PhHex  Bonus-RP	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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.

<b>3.1 Substances</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article)
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Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Eclipse Plus C18 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	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation	[1] [2]

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**SECTION 3: Composition/information on ingredients**

<b>Eclipse Plus PhHex</b>				(vapours)] = 11 mg/l	
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	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
<b>Bonus-RP</b>					
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  <b>See Section 16 for the full text of the H statements declared above.</b>	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[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, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

Eclipse Plus C18	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit
Eclipse Plus PhHex	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit
Bonus-RP	[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

<b>Eye contact</b>	: 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.
	Eclipse Plus PhHex	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.
	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.

## SECTION 4: First aid measures

<b>Inhalation</b>	: Eclipse Plus C18	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.
	Eclipse Plus PhHex	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.
	Bonus-RP	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.
<b>Skin contact</b>	: Eclipse Plus C18	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.
	Eclipse Plus PhHex	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.
	Bonus-RP	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.
<b>Ingestion</b>	: Eclipse Plus C18	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

## SECTION 4: First aid measures

Eclipse Plus PhHex	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.
Bonus-RP	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.
<b>Protection of first-aiders</b> : Eclipse Plus C18	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.
Eclipse Plus PhHex	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.
Bonus-RP	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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.
<b>Inhalation</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Eclipse Plus C18	Adverse symptoms may include the following: pain or irritation watering redness
	Eclipse Plus PhHex	Adverse symptoms may include the following: pain or irritation watering redness
	Bonus-RP	Adverse symptoms may include the following: pain or irritation

## SECTION 4: First aid measures

		watering redness
<b>Inhalation</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: Eclipse Plus C18	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.
	Eclipse Plus PhHex	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.
	Bonus-RP	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.
<b>Specific treatments</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific treatment. No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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

<b>Hazards from the substance or mixture</b>	: Eclipse Plus C18	Highly flammable liquid and vapour. 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 PhHex	Highly flammable liquid and vapour. 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.
	Bonus-RP	Highly flammable liquid and vapour. 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.
<b>Hazardous combustion products</b>	: Eclipse Plus C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides
	Eclipse Plus PhHex	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

## SECTION 5: Firefighting measures

Bonus-RP	cyanides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides
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### 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 PhHex	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.
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.

#### 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 PhHex	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.
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 PhHex	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

## SECTION 6: Accidental release measures

		inadequate. Put on appropriate personal protective equipment.
	Bonus-RP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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.
<b>For emergency responders</b>	: 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 PhHex	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".
	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".
<b>6.2 Environmental precautions</b>	: 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 PhHex	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).
	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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: 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 PhHex	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.
	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.
<b>6.4 Reference to other sections</b>	: 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.	

## 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 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. 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 PhHex

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. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Bonus-RP

Put on appropriate personal protective equipment (see Section 8). 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. 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 PhHex

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.

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

## SECTION 7: Handling and storage

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

<b>Storage</b>	: 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. Eliminate all ignition sources. Separate from oxidising 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. See Section 10 for incompatible materials before handling or use.
	Eclipse Plus PhHex	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 oxidising 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. See Section 10 for incompatible materials before handling or use.
	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. Eliminate all ignition sources. Separate from oxidising 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. See Section 10 for incompatible materials before handling or use.

### Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
<b>Eclipse Plus C18</b> P5c	5000 tonne	50000 tonne
<b>Eclipse Plus PhHex</b> P5c	5000 tonne	50000 tonne
<b>Bonus-RP</b> P5c	5000 tonne	50000 tonne

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
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## SECTION 7: Handling and storage

**Industrial sector specific solutions** :

Eclipse Plus C18	Not available.
Eclipse Plus PhHex	Not available.
Bonus-RP	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

Product/ingredient name	Exposure limit values
<b>Eclipse Plus C18</b> acetonitrile	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m <sup>3</sup> 8 hours.
<b>Eclipse Plus PhHex</b> acetonitrile	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m <sup>3</sup> 8 hours.
<b>Bonus-RP</b> acetonitrile	<b>NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values</b> OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m <sup>3</sup> 8 hours.

#### Biological exposure indices

None known.

#### Recommended monitoring procedures

: 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

Product/ingredient name	Type	Exposure	Value	Population	Effects
<b>Eclipse Plus C18</b> acetonitrile	DNEL	Long term Oral	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.4 mg/m <sup>3</sup>	General population	Systemic
<b>Eclipse Plus PhHex</b> acetonitrile	DNEL	Long term Oral	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic

## SECTION 8: Exposure controls/personal protection

<b>Bonus-RP</b> acetonitrile	DNEL	Long term Inhalation	2.4 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.4 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	0.6 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.2 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	2.4 mg/m <sup>3</sup>	General population	Systemic

### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

### Skin protection

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

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

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**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

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid)
<b>Colour</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Odour</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Odour threshold</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Melting point/freezing point</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Initial boiling point and boiling range</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Flammability</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Contains: Flammable liquid Contains: Flammable liquid Contains: Flammable liquid
<b>Upper/lower flammability or explosive limits</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Flash point</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Closed cup: -18 to 23°C Closed cup: -18 to 23°C Closed cup: -18 to 23°C

<b>Auto-ignition temperature</b>	: <table border="1"> <thead> <tr> <th>Ingredient name</th> <th>°C</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Eclipse Plus C18</b></td> </tr> <tr> <td>Acetonitrile</td> <td>524</td> <td></td> </tr> <tr> <td colspan="3"><b>Eclipse Plus PhHex</b></td> </tr> <tr> <td>Acetonitrile</td> <td>524</td> <td></td> </tr> <tr> <td colspan="3"><b>Bonus-RP</b></td> </tr> <tr> <td>Acetonitrile</td> <td>524</td> <td></td> </tr> </tbody> </table>	Ingredient name	°C	Method	<b>Eclipse Plus C18</b>			Acetonitrile	524		<b>Eclipse Plus PhHex</b>			Acetonitrile	524		<b>Bonus-RP</b>			Acetonitrile	524	
Ingredient name	°C	Method																				
<b>Eclipse Plus C18</b>																						
Acetonitrile	524																					
<b>Eclipse Plus PhHex</b>																						
Acetonitrile	524																					
<b>Bonus-RP</b>																						
Acetonitrile	524																					

<b>Decomposition temperature</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>pH</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.
<b>Viscosity</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Not available. Not available. Not available.

## SECTION 9: Physical and chemical properties

Solubility(ies)	Media	Result
	<b>Eclipse Plus C18</b>	
	Mobile phase	Soluble
	Stationary phase	Insoluble
	<b>Eclipse Plus PhHex</b>	
	Mobile phase	Soluble
	Stationary phase	Insoluble
	<b>Bonus-RP</b>	
	Mobile phase	Soluble
	Stationary phase	Insoluble

<b>Partition coefficient: n-octanol/water</b>	Eclipse Plus C18	Not applicable.
	Eclipse Plus PhHex	Not applicable.
	Bonus-RP	Not applicable.

Vapour pressure	Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
		mm Hg	kPa	Method	mm Hg	kPa	Method
	<b>Eclipse Plus C18</b>						
	Acetonitrile	70.89	9.5				
	water	23.8	3.2		92.258	12.3	
	<b>Eclipse Plus PhHex</b>						
	Acetonitrile	70.89	9.5				
	water	23.8	3.2		92.258	12.3	
	<b>Bonus-RP</b>						
	Acetonitrile	70.89	9.5				
	water	23.8	3.2		92.258	12.3	

<b>Evaporation rate</b>	Eclipse Plus C18	Not available.
	Eclipse Plus PhHex	Not available.
	Bonus-RP	Not available.

<b>Relative density</b>	Eclipse Plus C18	Not available.
	Eclipse Plus PhHex	Not available.
	Bonus-RP	Not available.

<b>Vapour density</b>	Eclipse Plus C18	Not available.
	Eclipse Plus PhHex	Not available.
	Bonus-RP	Not available.

<b>Explosive properties</b>	Eclipse Plus C18	Not available.
	Eclipse Plus PhHex	Not available.
	Bonus-RP	Not available.

<b>Oxidising properties</b>	Eclipse Plus C18	Not available.
	Eclipse Plus PhHex	Not available.
	Bonus-RP	Not available.

### Particle characteristics

<b>Median particle size</b>	Eclipse Plus C18	Not applicable.
	Eclipse Plus PhHex	Not applicable.
	Bonus-RP	Not applicable.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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.
<b>10.2 Chemical stability</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	The product is stable. The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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.
<b>10.4 Conditions to avoid</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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.
<b>10.5 Incompatible materials</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Reactive or incompatible with the following materials: oxidising materials Incompatible with hydrogen fluoride. Reactive or incompatible with the following materials: oxidising materials Incompatible with hydrogen fluoride. Reactive or incompatible with the following materials: oxidising materials Incompatible with hydrogen fluoride.
<b>10.6 Hazardous decomposition products</b>	: Eclipse Plus C18 Eclipse Plus PhHex 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
<b>Eclipse Plus C18</b> acetonitrile	LC50 Inhalation Vapour	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
<b>Eclipse Plus PhHex</b> acetonitrile	LC50 Inhalation Vapour	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
<b>Bonus-RP</b>				

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**SECTION 11: Toxicological information**

acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
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**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Eclipse Plus C18</b> Eclipse Plus C18 acetonitrile	2463.1 500	5418.7 1100	N/A N/A	54.2 11	N/A N/A
<b>Eclipse Plus PhHex</b> Eclipse Plus PhHex acetonitrile	2463.1 500	5418.7 1100	N/A N/A	54.2 11	N/A N/A
<b>Bonus-RP</b> Bonus-RP acetonitrile	2272.7 500	5000 1100	N/A N/A	50 11	N/A N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>Eclipse Plus C18</b> acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Eclipse Plus PhHex</b> acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
<b>Bonus-RP</b> acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

**Sensitiser**

**Conclusion/Summary** : 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)**

Not available.

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure**

: Eclipse Plus C18 Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
 Eclipse Plus PhHex Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
 Bonus-RP Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

## SECTION 11: Toxicological information

### Potential acute health effects

<b>Inhalation</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Eye contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.
<b>Ingestion</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.
<b>Skin contact</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No specific data. No specific data. No specific data.
<b>Eye contact</b>	: Eclipse Plus C18  Eclipse Plus PhHex  Bonus-RP	Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness

### 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

<b>General</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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**SECTION 11: Toxicological information**

<b>Reproductive toxicity</b>	: Eclipse Plus C18 Eclipse Plus PhHex Bonus-RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>Eclipse Plus C18</b> 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
<b>Eclipse Plus PhHex</b> 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
<b>Bonus-RP</b> 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

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
<b>Eclipse Plus C18</b> acetonitrile	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
<b>Eclipse Plus PhHex</b> acetonitrile	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
<b>Bonus-RP</b>				

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**SECTION 12: Ecological information**

acetonitrile	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Eclipse Plus C18</b> acetonitrile	-	-	Readily
<b>Eclipse Plus PhHex</b> acetonitrile	-	-	Readily
<b>Bonus-RP</b> acetonitrile	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Eclipse Plus C18</b> acetonitrile	-0.34	3	low
<b>Eclipse Plus PhHex</b> acetonitrile	-0.34	3	low
<b>Bonus-RP</b> acetonitrile	-0.34	3	low

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties**

Not available.

**12.7 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**

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## SECTION 13: Disposal considerations

- 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. Avoid dispersal of spilled 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.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

**Remarks:** Special provisions

ADR: 216

IATA: A46

IMDG: 216

**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 IMO instruments** : 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

Not listed.

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## SECTION 15: Regulatory information

<b>Label</b>	: Eclipse Plus C18	Not applicable.
	Eclipse Plus PhHex	Not applicable.
	Bonus-RP	Not applicable.

### Other EU regulations

**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.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### Danger criteria

Category
<b>Eclipse Plus C18</b> P5c
<b>Eclipse Plus PhHex</b> P5c
<b>Bonus-RP</b> P5c

### 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

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.

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## SECTION 15: Regulatory information

<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: All components are listed or exempted.
<b>United States</b>	: All components are active or exempted.
<b>Viet Nam</b>	: Not determined.

**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.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<b>Eclipse Plus C18</b> Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
<b>Eclipse Plus PhHex</b> Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
<b>Bonus-RP</b> Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method

### Full text of abbreviated H statements

<b>Eclipse Plus C18</b> H225 H302 H312 H319 H332	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.
<b>Eclipse Plus PhHex</b> H225 H302 H312 H319 H332	Highly flammable liquid and vapour. Harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. Harmful if inhaled.
<b>Bonus-RP</b> H225 H302	Highly flammable liquid and vapour. Harmful if swallowed.

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## SECTION 16: Other information

H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

### Full text of classifications [CLP/GHS]

<b>Eclipse Plus C18</b> Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2
<b>Eclipse Plus PhHex</b> Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2
<b>Bonus-RP</b> Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2	ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2

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