# SAFETY DATA SHEET



RRHD pH Method Development Kit, Part Number 5190-6152

### Section 1. Identification

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

1.1 Product identifier

**Product name** : RRHD pH Method Development Kit, Part Number 5190-6152

Part no. (chemical kit) : 5190-6152

Part no. : RRHD SB-C18 857700-902

RRHD Eclipse Plus C18 959757-902 RRHD Extend - C18 757700-902

Validation date : 10/27/2022

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

: Analytical chemistry. **Identified uses** 

LC column

Solvent volume: <10 ml

RHD SB-C18 2.1 x 50mm, 1.8µm, 1200bar

RRHD Eclipse Plus C18 2.1 x 50mm, 1.8µm

RRHD Extend - C18 2.1 x 50mm, 1.8um, 1200bar

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

## Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

**OSHA/HCS** status : RRHD SB-C18 This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200).

This material is considered hazardous by the OSHA RRHD Eclipse Plus C18

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

RRHD Extend - C18

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

RRHD SB-C18

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

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

**RRHD Eclipse Plus C18** 

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

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

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### Section 2. Hazards identification

**RRHD Extend - C18** 

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

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

2.2 GHS label elements

: RRHD SB-C18 **Hazard pictograms** 

RRHD Eclipse Plus C18

RRHD Extend - C18

Signal word : RRHD SB-C18

RRHD Eclipse Plus C18 RRHD Extend - C18

**Hazard statements** : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

RRHD Eclipse Plus C18

**Precautionary statements** 

: RRHD SB-C18 Prevention

P280 - Wear eye or face protection.

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

smoking.

H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation.

H225 - Highly flammable liquid and vapor.

H225 - Highly flammable liquid and vapor.

prolonged or repeated exposure.

prolonged or repeated exposure.

prolonged or repeated exposure.

H319 - Causes serious eye irritation.

H319 - Causes serious eye irritation.

H373 - May cause damage to organs through

H373 - May cause damage to organs through

H373 - May cause damage to organs through

Danger Danger

Danger

P241 - Use explosion-proof electrical, ventilating or

lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P233 - Keep container tightly closed.

P260 - Do not breathe vapor.

P280 - Wear eye or face protection.

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

open flames and other ignition sources. No

smokina.

P241 - Use explosion-proof electrical, ventilating or

lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P233 - Keep container tightly closed.

P260 - Do not breathe vapor.

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### Section 2. Hazards identification

RRHD Extend - C18 P280 - Wear eye or face protection.

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

open flames and other ignition sources. No

smoking.

P241 - Use explosion-proof electrical, ventilating or

lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P233 - Keep container tightly closed.

P260 - Do not breathe vapor.

Response : RRHD SB-C18 P314 - Get medical advice or attention if you feel

unwell.

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.

RRHD Eclipse Plus C18 P314 - Get medical advice or attention if you feel

unwell.

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.

RRHD Extend - C18 P314 - Get medical advice or attention if you feel

unwell.

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.

Storage : RRHD SB-C18 P403 + P235 - Store in a well-ventilated place.

Keep cool.

RRHD Eclipse Plus C18 P403 + P235 - Store in a well-ventilated place.

Keep cool.

RRHD Extend - C18 P403 + P235 - Store in a well-ventilated place.

Keep cool.

**Disposal** : RRHD SB-C18 P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

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

accordance with all local, regional, national and

international regulations.

RRHD Extend - C18 P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Supplemental label

elements

: RRHD SB-C18

RRHD Eclipse Plus C18 RRHD Extend - C18 None known. None known. None known.

2.3 Other hazards

Hazards not otherwise

classified

: RRHD SB-C18

RRHD Eclipse Plus C18 RRHD Extend - C18 None known. None known. None known.

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# Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Substance/mixture

: RRHD SB-C18 Mixture (encapsulated in article)
RRHD Eclipse Plus C18 Mixture (encapsulated in article)
RRHD Extend - C18 Mixture (encapsulated in article)

Ingredient name	%	CAS number
RRHD SB-C18		
Acetonitrile	≥10 - <22	75-05-8
RRHD Eclipse Plus C18		
Acetonitrile	≥10 - <22	75-05-8
RRHD Extend - C18		
Acetonitrile	≥10 - <22	75-05-8

Contains: Organosilane bonded silica gel

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

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

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

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

## Section 4. First aid measures

#### 4.1 Description of necessary first aid measures

Eye contact : RRHD SB-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.

RRHD 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.

RRHD Extend - 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.

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### Section 4. First aid measures

Inhalation : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

Skin contact : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - 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 following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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

thoroughly before reuse.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get

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### Section 4. First aid measures

Ingestion : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### 4.2 Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact : RRHD SB-C18

RRHD Eclipse Plus C18 Causes serious eye irritation. RRHD Extend - C18 Causes serious eye irritation.

Inhalation : RRHD SB-C18

RRHD Eclipse Plus C18 RRHD Extend - C18

Skin contact : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18 No known significant effects or critical hazards.

Causes serious eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

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 4. First aid measures

Ingestion : RRHD SB-C18 No known significant effects or critical hazards.

RRHD Eclipse Plus C18

No known significant effects or critical hazards.

RRHD Extend - C18

No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Skin contact** 

Ingestion

**Eye contact**: RRHD SB-C18 Adverse symptoms may include the following:

pain or irritation

watering redness

RRHD Eclipse Plus C18 Adverse symptoms may include the following:

pain or irritation

watering redness

RRHD Extend - C18 Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : RRHD SB-C18 No specific data.

RRHD Eclipse Plus C18
RRHD Extend - C18
RRHD SB-C18
No specific data.
No specific data.

RRHD Eclipse Plus C18
RRHD Extend - C18
RRHD SB-C18
RRHD Fclipse Plus C18
No specific data.
No specific data.
No specific data.

RRHD Eclipse Plus C18 No specific data. RRHD Extend - C18 No specific data.

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

Notes to physician : RRHD SB-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.

RRHD 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.

RRHD Extend - 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.

**Specific treatments**: RRHD SB-C18 No specific treatment.

RRHD Eclipse Plus C18 No specific treatment. RRHD Extend - C18 No specific treatment.

Protection of first-aiders : RRHD SB-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.

RRHD 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.

RRHD Extend - 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.

#### See toxicological information (Section 11)

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# Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: RRHD SB-C18 RRHD Eclipse Plus C18 RRHD Extend - C18

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.

Unsuitable extinguishing media

: RRHD SB-C18

RRHD Eclipse Plus C18 Do not use water jet. RRHD Extend - C18 Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: RRHD SB-C18

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

explosion.

Do not use water jet.

RRHD Eclipse Plus C18 Highly flamma

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

explosion.

RRHD Extend - C18 Highly flammable liquid and vapor. Runoff to sewer

may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent

explosion.

Hazardous thermal decomposition products

: RRHD SB-C18

Decomposition products may include the following

materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

cyanides

RRHD Eclipse Plus C18 Decomposition products may include the following

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

cyanides

RRHD Extend - C18 Decomposition products may include the following

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

cyanides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: RRHD SB-C18

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

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.

RRHD 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

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# Section 5. Fire-fighting measures

RRHD Extend - C18

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

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

Special protective equipment for fire-fighters

: RRHD SB-C18

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

pressure mode.

RRHD 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.

RRHD Extend - C18 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

### Section 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist.

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### Section 6. Accidental release measures

For emergency responders : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** 

: RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - 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. 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 watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of

via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb

with an inert dry material and place in an appropriate waste disposal container. Dispose of

via a licensed waste disposal contractor.

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# Section 7. Handling and storage

#### 7.1 Precautions for safe handling

Protective measures : RRHD SB-C18

RRHD Eclipse Plus C18

RRHD Extend - C18

Advice on general occupational hygiene

: RRHD SB-C18

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

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

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

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.

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7.2 Conditions for safe

storage, including any incompatibilities

# Section 7. Handling and storage

RRHD Eclipse Plus C18

RRHD Extend - C18

: RRHD SB-C18

RRHD Eclipse Plus C18

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

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

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

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

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# Section 7. Handling and storage

7.3 Specific end use(s)

**Recommendations**: RRHD SB-C18 Industrial applications, Professional applications.

RRHD Eclipse Plus C18 Industrial applications, Professional applications.

RRHD Extend - C18 Industrial applications, Professional applications.

RRHD SB-C18 Not available.

Industrial sector specific : RRHD SB-C18
solutions RRHD Eclipse

RRHD Eclipse Plus C18 Not available. RRHD Extend - C18 Not available.

# Section 8. Exposure controls/personal protection

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

### **8.1 Control parameters**

**Occupational exposure limits** 

Ingredient name	Exposure limits
RRHD SB-C18	
Acetonitrile	ACGIH TLV (United States, 1/2022). Absorbed through skin.  TWA: 20 ppm 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 40 ppm 8 hours.  TWA: 70 mg/m³ 8 hours.  STEL: 60 ppm 15 minutes.  STEL: 105 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 20 ppm 10 hours.  TWA: 34 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 40 ppm 8 hours.  TWA: 70 mg/m³ 8 hours.
RRHD Eclipse Plus C18	
Acetonitrile	ACGIH TLV (United States, 1/2022).  Absorbed through skin.  TWA: 20 ppm 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 40 ppm 8 hours.  TWA: 70 mg/m³ 8 hours.  STEL: 60 ppm 15 minutes.  STEL: 105 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).  TWA: 20 ppm 10 hours.  TWA: 34 mg/m³ 10 hours.  OSHA PEL (United States, 5/2018).  TWA: 40 ppm 8 hours.  TWA: 70 mg/m³ 8 hours.
RRHD Extend - C18 Acetonitrile	ACGIH TLV (United States, 1/2022). Absorbed through skin.  TWA: 20 ppm 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 40 ppm 8 hours.  TWA: 70 mg/m³ 8 hours.  STEL: 60 ppm 15 minutes.  STEL: 105 mg/m³ 15 minutes.  NIOSH REL (United States, 10/2020).

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# Section 8. Exposure controls/personal protection

TWA: 20 ppm 10 hours. TWA: 34 mg/m³ 10 hours.

OSHA PEL (United States, 5/2018).

TWA: 40 ppm 8 hours. TWA: 70 mg/m<sup>3</sup> 8 hours.

#### **Biological exposure indices**

No exposure indices known.

#### **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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

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

#### **Individual protection measures**

Hygiene measures

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

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

Eye/face protection

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

Skin protection

Hand protection

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

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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.

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# Section 9. Physical and chemical properties and safety characteristics

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

**Appearance** 

Odor

Physical state : RRHD SB-C18 Solid. (containing flammable liquid)

RRHD Eclipse Plus C18 Solid. (containing flammable liquid)
RRHD Extend - C18 Solid. (containing flammable liquid)

Not available.

Color : RRHD SB-C18 Not available.

RRHD Extend - C18

RRHD Eclipse Plus C18 White.

: RRHD SB-C18 Not available.
RRHD Eclipse Plus C18 Not available.
RRHD Extend - C18 Not available.

Odor threshold : RRHD SB-C18 Not available.

RRHD Eclipse Plus C18 Not available. RRHD Extend - C18 Not available. RRHD SB-C18 Not available.

pH : RRHD SB-C18 Not available.
RRHD Eclipse Plus C18 Not available.
RRHD Extend - C18 Not available.

Melting point/freezing point: RRHD SB-C18Not available.RRHD Eclipse Plus C18Not available.RRHD Extend - C18Not available.

Boiling point, initial boiling Point, and boiling range Plus C18 RRHD Eclipse Plus C18 Not available.

RRHD Extend - C18 Not available.

RRHD Extend - C18 Not available.

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

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

Evaporation rate : RRHD SB-C18 Not available.
RRHD Eclipse Plus C18 Not available.

RRHD Extend - C18 Not available.

Flammability : RRHD SB-C18 Contains: Flammable liquid

RRHD Eclipse Plus C18 Contains: Flammable liquid RRHD Extend - C18 Contains: Flammable liquid

Lower and upper explosion limit/flammability limit

: RRHD SB-C18 Not available. RRHD Eclipse Plus C18 Not available. RRHD Extend - C18 Not available.

Vapor pressure :

	Vapo	r Pressur	e at 20°C	Vap	or pressu	re at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
RRHD SB-C18						
Acetonitrile	70.89	9.5				
water	23.8	3.2		92.258	12.3	
RRHD Eclipse Plus C18						
Acetonitrile	70.89	9.5				
water	23.8	3.2		92.258	12.3	
RRHD Extend - C18						

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# Section 9. Physical and chemical properties and safety characteristics

 Acetonitrile
 70.89
 9.5

 water
 23.8
 3.2
 92.258
 12.3

Relative vapor density : RRHD SB-C18 Not available.

RRHD Extend - C18

RRHD Eclipse Plus C18
RRHD Extend - C18
RRHD SB-C18
RRHD Eclipse Plus C18
Not available.
Not available.
Not available.
Not available.

Solubility(ies) : Media Result

Stationary phase
Mobile phase
RRHD Eclipse Plus C18
Stationary phase
Mobile phase
Mobile phase
RRHD Extend - C18
Stationary phase
Mobile phase
Soluble
Insoluble
Soluble
Mobile phase
Mobile phase
Mobile phase
Soluble
Soluble

Not available.

Partition coefficient: noctanol/water

**Relative density** 

RRHD SB-C18 Not applicable.
RRHD Eclipse Plus C18 Not applicable.
RRHD Extend - C18 Not applicable.

**Auto-ignition temperature** 

THATE EXIGING OTO	110t ap	phoable.		
Ingredient name	°C	°F	Method	
RRHD SB-C18				
Acetonitrile	524	975.2		
RRHD Eclipse Plus C18				
Acetonitrile	524	975.2		
RRHD Extend - C18				
Acetonitrile	524	975.2		

**Decomposition temperature**: RRHD SB-C18 Not available.

RRHD Eclipse Plus C18
RRHD Extend - C18
Not available.

RRHD SB-C18
RRHD Eclipse Plus C18
RRHD Eclipse Plus C18
RRHD Extend - C18
Not available.

Not available.

Not available.

**Particle characteristics** 

**Viscosity** 

Median particle size : ▶RHD SB-C18 Not applicable.

RRHD Eclipse Plus C18 Not applicable. RRHD Extend - C18 Not applicable.

# Section 10. Stability and reactivity

**10.1 Reactivity** : RRHD SB-C18 No specific test data related to reactivity available

for this product or its ingredients.

RRHD Eclipse Plus C18 No specific test data related to reactivity available

for this product or its ingredients.

RRHD Extend - C18 No specific test data related to reactivity available

for this product or its ingredients.

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# Section 10. Stability and reactivity

10.2 Chemical stability : RRHD SB-C18 The product is stable.

RRHD Eclipse Plus C18 The product is stable.

RRHD Extend - C18 The product is stable.

10.3 Possibility of hazardous reactions

: RRHD SB-C18 Under normal conditions of storage and use,

hazardous reactions will not occur.

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

hazardous reactions will not occur.

RRHD Extend - C18 Under normal conditions of storage and use,

hazardous reactions will not occur.

10.4 Conditions to avoid : RRHD SB-C18

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

Avoid all possible sources of ignition (spark or

of ignition.

RRHD Eclipse Plus C18 Avoid all possible sources of ignition (spark or

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

of ignition.

RRHD Extend - C18 Avoid all possible sources of ignition (spark or

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

of ignition.

**10.5 Incompatible materials**: RRHD SB-C18 Reactive or incompatible with the following

materials:

oxidizing materials

RRHD Eclipse Plus C18 Reactive or incompatible with the following

materials:

oxidizing materials

RRHD Extend - C18 Reactive or incompatible with the following

materials:

oxidizing materials

10.6 Hazardous decomposition products

: RRHD SB-C18

Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

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

hazardous decomposition products should not be

produced.

RRHD Extend - C18 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
RRHD SB-C18 Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours
RRHD Eclipse Plus C18 Acetonitrile	LC50 Inhalation Vapor LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours

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# **Section 11. Toxicological information**

RRHD Extend - C18				
Acetonitrile	LC50 Inhalation Vapor	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
RRHD SB-C18					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
RRHD Eclipse Plus C18					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
RRHD Extend - C18					
Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

### **Sensitization**

Not available.

### **Mutagenicity**

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
RRHD SB-C18			
Acetonitrile	Category 2	-	blood system, central nervous system (CNS), kidneys, liver
RRHD Eclipse Plus C18 Acetonitrile	Category 2	-	blood system, central nervous system (CNS), kidneys, liver
RRHD Extend - C18 Acetonitrile	Category 2	-	blood system, central nervous system (CNS), kidneys, liver

### **Aspiration hazard**

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# **Section 11. Toxicological information**

Not available.

Information on the likely

routes of exposure

Ingestion

: RRHD SB-C18 Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

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

Inhalation, Eyes.

RRHD Extend - C18 Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Potential acute health effects

**Eye contact**: RRHD SB-C18 Causes serious eye irritation.

RRHD Eclipse Plus C18 Causes serious eye irritation. RRHD Extend - C18 Causes serious eye irritation.

Inhalation : RRHD SB-C18 No known significant effects or critical hazards.

RRHD Eclipse Plus C18 No known significant effects or critical hazards. RRHD Extend - C18 No known significant effects or critical hazards.

Skin contact : RRHD SB-C18 No known significant effects or critical hazards.

RRHD Eclipse Plus C18
RRHD Extend - C18
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

RRHD Eclipse Plus C18 No known significant effects or critical hazards. RRHD Extend - C18 No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : RRHD SB-C18 Adverse symptoms may include the following:

pain or irritation

watering redness

RRHD Eclipse Plus C18 Adverse symptoms may include the following:

pain or irritation

watering

redness

RRHD Extend - C18 Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : RRHD SB-C18 No specific data.

RRHD Eclipse Plus C18
RRHD Extend - C18
RRHD SB-C18
RRHD Eclipse Plus C18
No specific data.
No specific data.
No specific data.
No specific data.

RRHD Extend - C18

RRHD SB-C18

No specific data.

No specific data.

RRHD Eclipse Plus C18 No specific data. RRHD Extend - C18 No specific data.

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

**Short term exposure** 

Potential immediate : Not available.

effects

Skin contact

Ingestion

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

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# **Section 11. Toxicological information**

#### Potential chronic health effects

**General** : RRHD SB-C18 May cause damage to organs through prolonged or

repeated exposure.

May cause damage to organs through prolonged or RRHD Eclipse Plus C18

repeated exposure.

RRHD Extend - C18 May cause damage to organs through prolonged or

repeated exposure.

Carcinogenicity : RRHD SB-C18 No known significant effects or critical hazards.

> RRHD Eclipse Plus C18 No known significant effects or critical hazards. RRHD Extend - C18 No known significant effects or critical hazards.

Mutagenicity : RRHD SB-C18 No known significant effects or critical hazards.

> RRHD Eclipse Plus C18 No known significant effects or critical hazards. RRHD Extend - C18 No known significant effects or critical hazards. No known significant effects or critical hazards.

Reproductive toxicity : RRHD SB-C18

> RRHD Eclipse Plus C18 No known significant effects or critical hazards. RRHD Extend - C18 No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
RRHD SB-C18					
RRHD SB-C18	2463.1	5418.7	N/A	54.2	N/A
Acetonitrile	500	1100	N/A	11	N/A
RRHD Eclipse Plus C18					
RRHD Eclipse Plus C18	2463.1	5418.7	N/A	54.2	N/A
Acetonitrile	500	1100	N/A	11	N/A
RRHD Extend - C18					
RRHD Extend - C18	2463.1	5418.7	N/A	54.2	N/A
Acetonitrile	500	1100	N/A	11	N/A

# **Section 12. Ecological information**

### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
RRHD SB-C18			
Acetonitrile	Acute IC50 3685000 μg/l Fresh water Acute LC50 3600000 μg/l Fresh water Acute LC50 1000000 μg/l Fresh water Chronic NOEC 1000000 μg/l Fresh water Chronic NOEC 160000 μg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna	96 hours 48 hours 96 hours 96 hours 21 days
RRHD Eclipse Plus C18 Acetonitrile	Acute IC50 3685000 μg/l Fresh water Acute LC50 3600000 μg/l Fresh water Acute LC50 1000000 μg/l Fresh water Chronic NOEC 1000000 μg/l Fresh water Chronic NOEC 160000 μg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Pimephales promelas Aquatic plants - Lemna minor Daphnia - Daphnia magna	96 hours 48 hours 96 hours 96 hours 21 days
RRHD Extend - C18			

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# Section 12. Ecological information

685000 μg/l Fresh water	Aquatic plants - Lemna minor	96 hours
600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
C 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
C 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
3	3600000 μg/l Fresh water 1000000 μg/l Fresh water C 1000000 μg/l Fresh water	B600000 µg/l Fresh water Daphnia - Daphnia magna

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
RRHD SB-C18				
Acetonitrile	OECD 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
RRHD Eclipse Plus C18				
Acetonitrile	OECD 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
RRHD Extend - C18				
Acetonitrile	OECD 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)	70 % - Readily - 21 days	-	Activated sludge
				·

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RRHD SB-C18 Acetonitrile	-	-	Readily
RRHD Eclipse Plus C18 Acetonitrile	-	-	Readily
RRHD Extend - C18 Acetonitrile	-	-	Readily

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
RRHD SB-C18 Acetonitrile	-0.34	3	low
RRHD Eclipse Plus C18 Acetonitrile	-0.34	3	low
RRHD Extend - C18 Acetonitrile	-0.34	3	low

### 12.4 Mobility in soil

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# Section 12. Ecological information

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

**12.5 Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
RRHD SB-C18 Acetonitrile (I,T)	75-05-8	Listed	U003
RRHD Eclipse Plus C18 Acetonitrile (I,T)	75-05-8	Listed	U003
RRHD Extend - C18 Acetonitrile (I,T)	75-05-8	Listed	U003

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

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

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

# Section 14. Transport information

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

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

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# **Section 14. Transport information**

Special provisions:

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

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

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

event of an accident or spillage.

Transport in bulk according: Not available.

to IMO instruments

# Section 15. Regulatory information

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

**U.S. Federal regulations** : TSCA 8(a) PAIR: Acetonitrile

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

Clean Water Act (CWA) 307: Acetonitrile

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

(Essential Chemicals)

: Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

 RRHD SB-C18 Classification FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A

SPECIFIC TARGET ORĞAN TOXICITY (REPEATED

EXPOSURE) - Category 2

RRHD Eclipse Plus C18 FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

RRHD Extend - C18 FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A

SPECIFIC TARGET ORĞAN TOXICITY (REPEATED

EXPOSURE) - Category 2

**Composition/information on ingredients** 

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# **Section 15. Regulatory information**

Name	%	Classification
RRHD SB-C18 Organosilane bonded silica gel Acetonitrile	≥50 - ≤75 ≥10 - <22	COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
RRHD Eclipse Plus C18 Organosilane bonded silica gel Acetonitrile	≥50 - ≤75 ≥10 - <22	COMBUSTIBLE DUSTS FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
RRHD Extend - C18 Organosilane bonded silica gel Acetonitrile	≥50 - ≤75 ≥10 - <22	COMBUSTIBLE DUSTS  FLAMMABLE LIQUIDS - Category 2  ACUTE TOXICITY (oral) - Category 4  ACUTE TOXICITY (dermal) - Category 4  ACUTE TOXICITY (inhalation) - Category 4  EYE IRRITATION - Category 2A  SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting	RRHD SB-C18		
requirements	Acetonitrile	75-05-8	≥10 - <22
	RRHD Eclipse Plus C18		
	Acetonitrile	75-05-8	≥10 - <22
	RRHD Extend - C18		
	Acetonitrile	75-05-8	≥10 - <22
Supplier notification	RRHD SB-C18		
	Acetonitrile	75-05-8	≥10 - <22
	RRHD Eclipse Plus C18		
	Acetonitrile	75-05-8	≥10 - <22
	RRHD Extend - C18		
	Acetonitrile	75-05-8	≥10 - <22

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### **State regulations**

Massachusetts: The following components are listed: ACETONITRILENew York: The following components are listed: AcetonitrileNew Jersey: The following components are listed: ACETONITRILEPennsylvania: The following components are listed: ACETONITRILE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

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# **Section 15. Regulatory information**

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.
Canada : ☒l components are listed or exempted.
China : All components are listed or exempted.

**Eurasian Economic Union**: Russian Federation inventory: All components are listed or exempted.

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

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

**New Zealand** : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : All components are listed or exempted.
United States : All components are active or exempted.

Viet Nam : Not determined.

## Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification	
RRHD SB-C18		
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
EYE IRRITATION - Category 2A	Calculation method	
SPECIFIC TARGET ORĞAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method	
RRHD Eclipse Plus C18		
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
EYE IRRITATION - Category 2A	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method	
RRHD Extend - C18		
FLAMMABLE LIQUIDS - Category 2	On basis of test data	
EYE IRRITATION - Category 2A	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method	

#### **History**

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### Section 16. Other information

### **Key to abbreviations**

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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