

SAFETY DATA SHEET



Poroshell 120 - Selectivity Method Development - 4.6 x 50 mm, Part Number 5190-6156

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 : Poroshell 120 - Selectivity Method Development - 4.6 x 50 mm, Part Number 5190-6156
Part No. (Kit) : 5190-6156
Part No. : Poroshell 120, EC-C18 699975-902
Poroshell 120, Phe-Hex 699975-912
Poroshell 120 Bonus RP 699968-901

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

Identified uses	
Analytical chemistry. Column Poroshell 120, EC-C18	4.6x50mm, 2.7um Solvent Volume: 0.42
Poroshell 120, Phe-Hex	4.6x50mm, 2.7um Solvent Volume: 0.42
Poroshell 120 Bonus RP	4.6x50mm, 2.7um Solvent Volume: 0.42

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

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

2.1 Classification of the substance or mixture

Product definition : Poroshell 120, EC-C18 Mixture (encapsulated in article)
Poroshell 120, Phe-Hex Mixture (encapsulated in article)
Poroshell 120 Bonus RP Mixture (encapsulated in article)

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

Poroshell 120, EC-C18

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

Poroshell 120, Phe-Hex

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

Poroshell 120 Bonus RP

Date of issue/Date of revision : 19/04/2017

SECTION 2: Hazards identification

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

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

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

2.2 Label elements

Hazard pictograms



Signal word

: Poroshell 120, EC-C18 Danger
 Poroshell 120, Phe-Hex Danger
 Poroshell 120 Bonus RP Danger

Hazard statements

: Poroshell 120, EC-C18 **GHS02** - Highly flammable liquid and vapour.
GHS07 - Causes serious eye irritation.
 Poroshell 120, Phe-Hex **GHS02** - Highly flammable liquid and vapour.
GHS07 - Causes serious eye irritation.
 Poroshell 120 Bonus RP **GHS02** - Highly flammable liquid and vapour.
GHS07 - Causes serious eye irritation.

Precautionary statements

Prevention

: Poroshell 120, EC-C18 P280 - Wear protective gloves. 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, lighting and all material-handling equipment.
 Poroshell 120, Phe-Hex P280 - Wear protective gloves. 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, lighting and all material-handling equipment.
 Poroshell 120 Bonus RP P280 - Wear protective gloves. 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, lighting and all material-handling equipment.

Response

: Poroshell 120, EC-C18 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 Poroshell 120, Phe-Hex P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 Poroshell 120 Bonus RP P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Storage

: Poroshell 120, EC-C18 P235 - Keep cool.
 Poroshell 120, Phe-Hex P235 - Keep cool.
 Poroshell 120 Bonus RP P235 - Keep cool.

Disposal

: Poroshell 120, EC-C18 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
 Poroshell 120, Phe-Hex P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
 Poroshell 120 Bonus RP P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 2: Hazards identification

Hazardous ingredients : Poroshell 120, EC-C18 Not applicable.
 Poroshell 120, Phe-Hex Not applicable.
 Poroshell 120 Bonus RP Not applicable.

Supplemental label elements : Poroshell 120, EC-C18 Not applicable.
 Poroshell 120, Phe-Hex Not applicable.
 Poroshell 120 Bonus RP Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Poroshell 120, EC-C18 Not applicable.
 Poroshell 120, Phe-Hex Not applicable.
 Poroshell 120 Bonus RP Not applicable.

Special packaging requirements

Tactile warning of danger : Poroshell 120, EC-C18 Not applicable.
 Poroshell 120, Phe-Hex Not applicable.
 Poroshell 120 Bonus RP Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : Poroshell 120, EC-C18 None known.
 Poroshell 120, Phe-Hex None known.
 Poroshell 120 Bonus RP None known.

SECTION 3: Composition/information on ingredients

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

3.1 Substances : Poroshell 120, EC-C18 Mixture (encapsulated in article)
 Poroshell 120, Phe-Hex Mixture (encapsulated in article)
 Poroshell 120 Bonus RP Mixture (encapsulated in article)

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Poroshell 120, EC-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	[1] [2]
Poroshell 120, Phe-Hex Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥10 - <25	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
Poroshell 120 Bonus RP 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 See Section 16 for the full text of the H statements declared above.	[1] [2]

SECTION 3: Composition/information on ingredients

Contains: Organosilane bonded silica gel

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

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

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

[5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 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.
Inhalation	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 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

SECTION 4: First aid measures

		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.
Skin contact	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 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.
Ingestion	: Poroshell 120, EC-C18	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if 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.
	Poroshell 120, Phe-Hex	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Poroshell 120 Bonus RP	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if 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.

SECTION 4: First aid measures

Protection of first-aiders	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 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. 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. 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.
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4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.
Inhalation	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 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

Eye contact	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 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
Inhalation	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No specific data. No specific data. No specific data.
Skin contact	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No specific data. No specific data. No specific data.
Ingestion	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 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. 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. 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	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Poroshell 120, EC-C18	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Poroshell 120, Phe-Hex	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Poroshell 120 Bonus RP	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Poroshell 120, EC-C18	Do not use water jet.
	Poroshell 120, Phe-Hex	Do not use water jet.
	Poroshell 120 Bonus RP	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Poroshell 120, EC-C18	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
	Poroshell 120, Phe-Hex	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
	Poroshell 120 Bonus RP	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: Poroshell 120, EC-C18	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides
	Poroshell 120, Phe-Hex	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides
	Poroshell 120 Bonus RP	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides cyanides

5.3 Advice for firefighters

Special precautions for fire-fighters	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 Bonus RP	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 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	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 Bonus RP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: Poroshell 120, EC-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".
	Poroshell 120, Phe-Hex	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".
	Poroshell 120 Bonus RP	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: Poroshell 120, EC-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).
	Poroshell 120, Phe-Hex	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).
	Poroshell 120 Bonus RP	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 Bonus RP	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Poroshell 120, EC-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.
	Poroshell 120, Phe-Hex	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

SECTION 7: Handling and storage

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

Poroshell 120 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

: Poroshell 120, EC-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.

Poroshell 120, Phe-Hex

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.

Poroshell 120 Bonus RP

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

7.2 Conditions for safe storage, including any incompatibilities

Storage

: Poroshell 120, EC-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 oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Poroshell 120, Phe-Hex

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

SECTION 7: Handling and storage

Poroshell 120 Bonus RP environmental contamination.
 Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Poroshell 120, EC-C18 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
Poroshell 120, Phe-Hex P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000
Poroshell 120 Bonus RP P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	5000	50000

7.3 Specific end use(s)

Recommendations : Poroshell 120, EC-C18 Industrial applications, Professional applications.
 Poroshell 120, Phe-Hex Industrial applications, Professional applications.
 Poroshell 120 Bonus RP Industrial applications, Professional applications.

Industrial sector specific solutions : Poroshell 120, EC-C18 Not applicable.
 Poroshell 120, Phe-Hex Not applicable.
 Poroshell 120 Bonus RP Not applicable.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Poroshell 120, EC-C18 Acetonitrile	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 40 ppm 8 hours. TWA: 68 mg/m ³ 8 hours.
Poroshell 120, Phe-Hex Acetonitrile	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 40 ppm 8 hours. TWA: 68 mg/m ³ 8 hours.
Poroshell 120 Bonus RP Acetonitrile	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes. TWA: 40 ppm 8 hours.

SECTION 8: Exposure controls/personal protectionTWA: 68 mg/m³ 8 hours.

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

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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

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

SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Physical state	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid)
Colour	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	White. White. White.
Odour	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Odour threshold	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
pH	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Melting point/freezing point	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Initial boiling point and boiling range	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Flash point	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Closed cup: -18 to 23°C Closed cup: -18 to 23°C Closed cup: -18 to 23°C
Evaporation rate	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Flammability (solid, gas)	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Contains: Flammable liquid Contains: Flammable liquid Contains: Flammable liquid
Upper/lower flammability or explosive limits	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Vapour pressure	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.

SECTION 9: Physical and chemical properties

Vapour density	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Relative density	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Solubility(ies)	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Mobile phase: Soluble Stationary phase: Insoluble Mobile phase: Soluble Stationary phase: Insoluble Mobile phase: Soluble Stationary phase: Insoluble
Partition coefficient: n-octanol/water	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Auto-ignition temperature	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Decomposition temperature	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Viscosity	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Explosive properties	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.
Oxidising properties	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	Not available. Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	The product is stable. The product is stable. The product is stable.

SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions	: Poroshell 120, EC-C18	Under normal conditions of storage and use, hazardous reactions will not occur.
	Poroshell 120, Phe-Hex	Under normal conditions of storage and use, hazardous reactions will not occur.
	Poroshell 120 Bonus RP	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Poroshell 120, EC-C18	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.
	Poroshell 120, Phe-Hex	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.
	Poroshell 120 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.
10.5 Incompatible materials	: Poroshell 120, EC-C18	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.
	Poroshell 120, Phe-Hex	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.
	Poroshell 120 Bonus RP	Reactive or incompatible with the following materials: oxidizing materials. Incompatible with hydrogen fluoride.
10.6 Hazardous decomposition products	: Poroshell 120, EC-C18	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Poroshell 120, Phe-Hex	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Poroshell 120 Bonus RP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Poroshell 120, EC-C18 Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
Poroshell 120, Phe-Hex Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -
Poroshell 120 Bonus RP Acetonitrile	LC50 Inhalation Vapour LD50 Oral	Rat Rat	17100 ppm 2460 mg/kg	4 hours -

Acute toxicity estimates

Route	ATE value
Poroshell 120, EC-C18 Oral Dermal Inhalation (vapours)	2551 mg/kg 5612.2 mg/kg 56.12 mg/l
Poroshell 120, Phe-Hex Oral Dermal Inhalation (vapours)	2500 mg/kg 5500 mg/kg 55 mg/l
Poroshell 120 Bonus RP	

SECTION 11: Toxicological information

Oral	2500 mg/kg
Dermal	5500 mg/kg
Inhalation (vapours)	55 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Poroshell 120, EC-C18 Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Poroshell 120, Phe-Hex Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Poroshell 120 Bonus RP Acetonitrile	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

Sensitiser

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 : Poroshell 120, EC-C18 Routes of entry anticipated: Oral, Dermal, Inhalation.
 Poroshell 120, Phe-Hex Routes of entry anticipated: Oral, Dermal, Inhalation.
 Poroshell 120 Bonus RP Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Poroshell 120, EC-C18 No known significant effects or critical hazards.
 Poroshell 120, Phe-Hex No known significant effects or critical hazards.
 Poroshell 120 Bonus RP No known significant effects or critical hazards.

Ingestion : Poroshell 120, EC-C18 No known significant effects or critical hazards.
 Poroshell 120, Phe-Hex No known significant effects or critical hazards.
 Poroshell 120 Bonus RP No known significant effects or critical hazards.

Skin contact : Poroshell 120, EC-C18 No known significant effects or critical hazards.
 Poroshell 120, Phe-Hex No known significant effects or critical hazards.
 Poroshell 120 Bonus RP No known significant effects or critical hazards.

Eye contact : Poroshell 120, EC-C18 Causes serious eye irritation.
 Poroshell 120, Phe-Hex Causes serious eye irritation.
 Poroshell 120 Bonus RP Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Poroshell 120, EC-C18 No specific data.
 Poroshell 120, Phe-Hex No specific data.
 Poroshell 120 Bonus RP No specific data.

Ingestion : Poroshell 120, EC-C18 No specific data.
 Poroshell 120, Phe-Hex No specific data.
 Poroshell 120 Bonus RP No specific data.

Skin contact : Poroshell 120, EC-C18 No specific data.
 Poroshell 120, Phe-Hex No specific data.
 Poroshell 120 Bonus RP No specific data.

SECTION 11: Toxicological information

Eye contact	: Poroshell 120, EC-C18	Adverse symptoms may include the following: pain or irritation watering redness
	Poroshell 120, Phe-Hex	Adverse symptoms may include the following: pain or irritation watering redness
	Poroshell 120 Bonus RP	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

General	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Poroshell 120, EC-C18 Poroshell 120, Phe-Hex Poroshell 120 Bonus RP	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Poroshell 120, EC-C18 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
Poroshell 120, Phe-Hex 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

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SECTION 12: Ecological information

Poroshell 120 Bonus RP Acetonitrile	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
	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

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poroshell 120, EC-C18 Acetonitrile	-	-	Readily
Poroshell 120, Phe-Hex Acetonitrile	-	-	Readily
Poroshell 120 Bonus RP Acetonitrile	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Poroshell 120, EC-C18 Acetonitrile	-0.34	3	low
Poroshell 120, Phe-Hex Acetonitrile	-0.34	3	low
Poroshell 120 Bonus RP Acetonitrile	-0.34	3	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

SECTION 13: Disposal considerations

- Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.
- Packaging**
- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

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

Regulatory information

ADR/RID / IMDG / IATA : Not regulated.

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

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

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Poroshell 120, EC-C18	Not applicable.
	Poroshell 120, Phe-Hex	Not applicable.
	Poroshell 120 Bonus RP	Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

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

Industrial emissions (integrated pollution prevention and control) - Air

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

Industrial emissions (integrated pollution prevention and control) - Water

Ozone depleting substances (1005/2009/EU)

Not listed.

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

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SECTION 15: Regulatory information

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Poroshell 120, EC-C18

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

Poroshell 120, Phe-Hex

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

Poroshell 120 Bonus RP

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

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

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

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

SECTION 16: Other information

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

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

Classification	Justification
Poroshell 120, EC-C18 Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
Poroshell 120, Phe-Hex Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method
Poroshell 120 Bonus RP Flam. Liq. 2, H225 Eye Irrit. 2, H319	On basis of test data Calculation method

Full text of abbreviated H statements

Poroshell 120, EC-C18 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.
Poroshell 120, Phe-Hex 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.
Poroshell 120 Bonus RP 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.

Full text of classifications [CLP/GHS]

Poroshell 120, EC-C18 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Flam. Liq. 2, H225	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2
Poroshell 120, Phe-Hex Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Flam. Liq. 2, H225	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2
Poroshell 120 Bonus RP Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SECTION 16: Other information

Flam. Liq. 2, H225

FLAMMABLE LIQUIDS - Category 2

Date of issue/ Date of revision : 19/04/2017

Date of previous issue : No previous validation.

Version : 1

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