

SAFETY DATA SHEET



Poroshell 120 - Aqueous Method Development Kit - 2.1x50mm, Part Number 5190-6157

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 - Aqueous Method Development Kit - 2.1x50mm, Part Number 5190-6157
Part no. (chemical kit) : 5190-6157
Part no. : Poroshell 120, SB-Aq 689775-914
Poroshell 120, Phe-Hex 699775-912
Poroshell 120 Bonus RP 699768-901

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

Material uses : Analytical chemistry.
2.1 x 50mm, 2.7µm
Poroshell 120, SB-Aq 2.1x50mm, 2.7µm Solvent Volume: 0.10 ml
Poroshell 120, Phe-Hex 2.1x50mm, 2.7µm Solvent Volume: 0.10 ml
Poroshell 120 Bonus RP 2.1x50mm, 2.7µm Solvent Volume: 0.10 ml

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, SB-Aq 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, SB-Aq

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

SECTION 2: Hazards identification

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

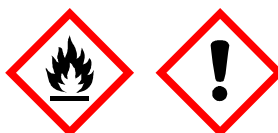
See Section 16 for the full text of the H statements declared above.

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

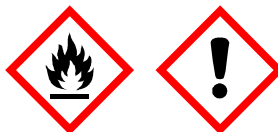
2.2 Label elements

Hazard pictograms

: Poroshell 120, SB-Aq



Poroshell 120, Phe-Hex



Poroshell 120 Bonus RP



Signal word

: Poroshell 120, SB-Aq Danger
 Poroshell 120, Phe-Hex Danger
 Poroshell 120 Bonus RP Danger

Hazard statements

: Poroshell 120, SB-Aq H225 - Highly flammable liquid and vapour.
 H319 - Causes serious eye irritation.
 Poroshell 120, Phe-Hex H225 - Highly flammable liquid and vapour.
 H319 - Causes serious eye irritation.
 Poroshell 120 Bonus RP H225 - Highly flammable liquid and vapour.
 H319 - Causes serious eye irritation.

Precautionary statements

Prevention

: Poroshell 120, SB-Aq P280 - Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Poroshell 120, Phe-Hex P280 - Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Poroshell 120 Bonus RP P280 - Wear eye or face protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response

: Poroshell 120, SB-Aq 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.
 Poroshell 120, Phe-Hex 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.
 Poroshell 120 Bonus RP P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical advice or attention.

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SECTION 2: Hazards identification

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| Storage | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |
| Disposal | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |
| Supplemental label elements | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |
| <u>Special packaging requirements</u> | | |
| Tactile warning of danger | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |

2.3 Other hazards

| | | |
|--|--|---|
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do not result in classification | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | None known. None known. None known. |

SECTION 3: Composition/information on ingredients

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

| | | |
|-----------------------|--|---|
| 3.1 Substances | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Mixture (encapsulated in article) Mixture (encapsulated in article) Mixture (encapsulated in article) |
|-----------------------|--|---|

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|--|--|-----------|--|---------|
| Poroshell 120, SB-Aq 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 | ≥10 - <25 | Flam. Liq. 2, H225 Acute Tox. 4, H302 | [1] [2] |

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SECTION 3: Composition/information on ingredients

| | | | | |
|---|--|---------------------|--|----------------|
| <p>Poroshell 120 Bonus RP Acetonitrile</p> | <p>Index: 608-001-00-3</p> <p>EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3</p> | <p>≥10 - <25</p> | <p>Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319</p> <p>Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319</p> <p>See Section 16 for the full text of the H statements declared above.</p> | <p>[1] [2]</p> |
|---|--|---------------------|--|----------------|

Contains: Organosilane bonded silica gel

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

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[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

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

| | | |
|--------------------|------------------------|--|
| Eye contact | : Poroshell 120, SB-Aq | 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, SB-Aq | 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 |

SECTION 4: First aid measures

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

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

Poroshell 120 Bonus RP Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is

SECTION 4: First aid measures

| | | |
|-----------------------------------|------------------------|--|
| | | 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. |
| Protection of first-aiders | : Poroshell 120, SB-Aq | 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. |
| | Poroshell 120, Phe-Hex | 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. |
| | 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. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | | |
|---------------------|------------------------|---|
| Eye contact | : Poroshell 120, SB-Aq | Causes serious eye irritation. |
| | Poroshell 120, Phe-Hex | Causes serious eye irritation. |
| | Poroshell 120 Bonus RP | Causes serious eye irritation. |
| Inhalation | : Poroshell 120, SB-Aq | 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, SB-Aq | 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, SB-Aq | 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. |

Over-exposure signs/symptoms

| | | |
|---------------------|------------------------|--|
| Eye contact | : Poroshell 120, SB-Aq | 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 |
| Inhalation | : Poroshell 120, SB-Aq | No specific data. |
| | Poroshell 120, Phe-Hex | No specific data. |
| | Poroshell 120 Bonus RP | No specific data. |
| Skin contact | : Poroshell 120, SB-Aq | No specific data. |
| | Poroshell 120, Phe-Hex | No specific data. |
| | Poroshell 120 Bonus RP | No specific data. |
| Ingestion | : Poroshell 120, SB-Aq | No specific data. |
| | Poroshell 120, Phe-Hex | No specific data. |
| | Poroshell 120 Bonus RP | No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

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| Notes to physician | : Poroshell 120, SB-Aq | 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 | 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 | 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, SB-Aq | No specific treatment. |
| | Poroshell 120, Phe-Hex | No specific treatment. |
| | Poroshell 120 Bonus RP | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | | |
|---------------------------------------|------------------------|--|
| Suitable extinguishing media | : Poroshell 120, SB-Aq | 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, SB-Aq | 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, SB-Aq | Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| | Poroshell 120, Phe-Hex | Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| | Poroshell 120 Bonus RP | Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous combustion products | : Poroshell 120, SB-Aq | 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

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SECTION 5: Firefighting measures

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| Special precautions for fire-fighters | : Poroshell 120, SB-Aq | 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. |
| Special protective equipment for fire-fighters | : Poroshell 120, SB-Aq | 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

| | | |
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| For non-emergency personnel | : Poroshell 120, SB-Aq | 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 |

SECTION 6: Accidental release measures

For emergency responders

- : Poroshell 120, SB-Aq equipment.
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".

6.2 Environmental precautions

- : Poroshell 120, SB-Aq 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, SB-Aq 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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SECTION 7: Handling and storage

| | | |
|---|------------------------|---|
| Protective measures | : Poroshell 120, SB-Aq | 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. 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, SB-Aq | 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. |

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

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

Seveso Directive - Reporting thresholds

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|-------------------------------|---------------------------------|-------------------------|
| Poroshell 120, SB-Aq P5c | 5000 tonne | 50000 tonne |
| Poroshell 120, Phe-Hex P5c | 5000 tonne | 50000 tonne |
| Poroshell 120 Bonus RP P5c | 5000 tonne | 50000 tonne |

7.3 Specific end use(s)

| | | |
|---|--|---|
| Recommendations | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. |
| Industrial sector specific solutions | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |

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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, SB-Aq Acetonitrile | NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 8 hours. |
| Poroshell 120, Phe-Hex Acetonitrile | NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 8 hours. |
| Poroshell 120 Bonus RP Acetonitrile | NAOSH (Ireland, 1/2020). Absorbed through skin. OELV-8hr: 40 ppm 8 hours. OELV-8hr: 70 mg/m ³ 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

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|---|-----------------------|-----------------------|--------------------|--------------------|
| Poroshell 120, SB-Aq Acetonitrile | DNEL | Short term Oral | 0.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 22 mg/m ³ | General population | Local |
| | DNEL | Long term Dermal | 32.2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 220 mg/m ³ | General population | Systemic |
| | Poroshell 120, Phe-Hex Acetonitrile | DNEL | Short term Oral | 0.6 mg/kg bw/day | General population |

SECTION 8: Exposure controls/personal protection

| | | | | | |
|---|------|-----------------------|-----------------------|--------------------|----------|
| Poroshell 120 Bonus RP Acetonitrile | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 22 mg/m ³ | General population | Local |
| | DNEL | Long term Dermal | 32.2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 220 mg/m ³ | General population | Systemic |
| | DNEL | Short term Oral | 0.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 4.8 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 22 mg/m ³ | General population | Local |
| | DNEL | Long term Dermal | 32.2 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Inhalation | 68 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 220 mg/m ³ | General population | Systemic |

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

SECTION 8: Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

| | | |
|---|--|--|
| Physical state | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Solid. (containing flammable liquid) Solid. (containing flammable liquid) Solid. (containing flammable liquid) |
| Colour | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | White. White. White. |
| Odour | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |
| Odour threshold | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |
| Melting point/freezing point | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |
| Initial boiling point and boiling range | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |
| Flammability (solid, gas) | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not applicable. Not applicable. Not applicable. |
| Upper/lower flammability or explosive limits | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Not available. Not available. Not available. |
| Flash point | : Poroshell 120, SB-Aq Poroshell 120, Phe-Hex Poroshell 120 Bonus RP | Closed cup: -18 to 23°C (-0.4 to 73.4°F) Closed cup: -18 to 23°C (-0.4 to 73.4°F) Closed cup: -18 to 23°C (-0.4 to 73.4°F) |

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SECTION 9: Physical and chemical properties

| | | | | | | | |
|---|-------------------------------|--|------------|---------------|--------------------------------|------------|---------------|
| Auto-ignition temperature | Ingredient name | °C | °F | Method | | | |
| | Poroshell 120, SB-Aq | | | | | | |
| | Acetonitrile | 524 | 975.2 | | | | |
| | Poroshell 120, Phe-Hex | | | | | | |
| | Acetonitrile | 524 | 975.2 | | | | |
| | Poroshell 120 Bonus RP | | | | | | |
| | Acetonitrile | 524 | 975.2 | | | | |
| Decomposition temperature | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |
| pH | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |
| Viscosity | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |
| Solubility(ies) | Poroshell 120, SB-Aq | Mobile phase: Soluble Stationary phase: Insoluble | | | | | |
| | Poroshell 120, Phe-Hex | Mobile phase: Soluble Stationary phase: Insoluble | | | | | |
| | Poroshell 120 Bonus RP | Mobile phase: Soluble Stationary phase: Insoluble | | | | | |
| Partition coefficient: n-octanol/water | Poroshell 120, SB-Aq | Not applicable. | | | | | |
| | Poroshell 120, Phe-Hex | Not applicable. | | | | | |
| | Poroshell 120 Bonus RP | Not applicable. | | | | | |
| Vapour pressure | | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
| | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | Poroshell 120, SB-Aq | | | | | | |
| | Acetonitrile | 70.89 | 9.5 | | | | |
| | water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| | Poroshell 120, Phe-Hex | | | | | | |
| | Acetonitrile | 70.89 | 9.5 | | | | |
| | water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| | Poroshell 120 Bonus RP | | | | | | |
| | Acetonitrile | 70.89 | 9.5 | | | | |
| | water | 23.8 | 3.2 | | 92.258 | 12.3 | |
| Evaporation rate | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |
| Relative density | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |
| Vapour density | Poroshell 120, SB-Aq | Not available. | | | | | |
| | Poroshell 120, Phe-Hex | Not available. | | | | | |
| | Poroshell 120 Bonus RP | Not available. | | | | | |

SECTION 9: Physical and chemical properties

| | | | |
|---------------------------------|---|------------------------|-----------------|
| Explosive properties | : | Poroshell 120, SB-Aq | Not available. |
| | | Poroshell 120, Phe-Hex | Not available. |
| | | Poroshell 120 Bonus RP | Not available. |
| Oxidising properties | : | Poroshell 120, SB-Aq | Not available. |
| | | Poroshell 120, Phe-Hex | Not available. |
| | | Poroshell 120 Bonus RP | Not available. |
| Particle characteristics | | | |
| Median particle size | : | Poroshell 120, SB-Aq | Not applicable. |
| | | Poroshell 120, Phe-Hex | Not applicable. |
| | | Poroshell 120 Bonus RP | Not applicable. |

No additional information.

SECTION 10: Stability and reactivity

| | | | |
|--|---|------------------------|---|
| 10.1 Reactivity | : | Poroshell 120, SB-Aq | No specific test data related to reactivity available for this product or its ingredients. |
| | | Poroshell 120, Phe-Hex | No specific test data related to reactivity available for this product or its ingredients. |
| | | Poroshell 120 Bonus RP | No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : | Poroshell 120, SB-Aq | The product is stable. |
| | | Poroshell 120, Phe-Hex | The product is stable. |
| | | Poroshell 120 Bonus RP | The product is stable. |
| 10.3 Possibility of hazardous reactions | : | Poroshell 120, SB-Aq | 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, SB-Aq | 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, SB-Aq | Reactive or incompatible with the following materials: oxidising materials, Hydrogen fluoride (HF). |
| | | Poroshell 120, Phe-Hex | Reactive or incompatible with the following materials: oxidising materials, Hydrogen fluoride (HF). |
| | | Poroshell 120 Bonus RP | Reactive or incompatible with the following materials: oxidising materials, Hydrogen fluoride (HF). |
| 10.6 Hazardous decomposition products | : | Poroshell 120, SB-Aq | 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. |

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|-------------------------------------|------------|-------------------------|--------------|
| Poroshell 120, SB-Aq 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

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| Poroshell 120, SB-Aq Poroshell 120, SB-Aq Acetonitrile | 2793.3 500 | 6145.3 1100 | N/A N/A | 61.5 11 | N/A N/A |
| Poroshell 120, Phe-Hex Poroshell 120, Phe-Hex Acetonitrile | 2793.3 500 | 6145.3 1100 | N/A N/A | 61.5 11 | N/A N/A |
| Poroshell 120 Bonus RP Poroshell 120 Bonus RP Acetonitrile | 2538.1 500 | 5583.8 1100 | N/A N/A | 55.8 11 | N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------|---------|-------|-----------------|-------------|
| Poroshell 120, SB-Aq Acetonitrile | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 uL | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Poroshell 120, Phe-Hex Acetonitrile | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 uL | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Poroshell 120 Bonus RP Acetonitrile | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 uL | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

SECTION 11: Toxicological information

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, SB-Aq 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, SB-Aq 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, SB-Aq 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, SB-Aq 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, SB-Aq 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, SB-Aq No specific data.
Poroshell 120, Phe-Hex No specific data.
Poroshell 120 Bonus RP No specific data.

Ingestion : Poroshell 120, SB-Aq No specific data.
Poroshell 120, Phe-Hex No specific data.
Poroshell 120 Bonus RP No specific data.

Skin contact : Poroshell 120, SB-Aq No specific data.
Poroshell 120, Phe-Hex No specific data.
Poroshell 120 Bonus RP No specific data.

Eye contact : Poroshell 120, SB-Aq 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.

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SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

| | | |
|------------------------------|--|---|
| General | : Poroshell 120, SB-Aq 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, SB-Aq 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, SB-Aq 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. |
| Reproductive toxicity | : Poroshell 120, SB-Aq 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, SB-Aq 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 |
| | 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 Bonus RP Acetonitrile | Acute IC50 3685000 µg/l Fresh water | Aquatic plants - Lemna minor | 96 hours |
| | Acute LC50 3600000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 1000000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 1000000 µg/l Fresh water | Aquatic plants - Lemna minor | 96 hours |
| | Chronic NOEC 160000 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|--------------------------|------|------------------|
| Poroshell 120, SB-Aq Acetonitrile | OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | 70 % - Readily - 21 days | - | Activated sludge |
| Poroshell 120, Phe-Hex Acetonitrile | OECD 310 Ready Biodegradability - | 70 % - Readily - 21 days | - | Activated sludge |

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SECTION 12: Ecological information

| | | | | |
|---|--|--------------------------|---|------------------|
| Poroshell 120 Bonus RP Acetonitrile | CO2 in Sealed Vessels (Headspace Test) OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | 70 % - Readily - 21 days | - | Activated sludge |
|---|--|--------------------------|---|------------------|

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| Poroshell 120, SB-Aq 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, SB-Aq 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

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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

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SECTION 13: Disposal considerations

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.

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

Additional information

Remarks: Special provisions

ADR: 216

IATA: A46

IMDG: 216

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

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Label : Poroshell 120, SB-Aq Not applicable.
Poroshell 120, Phe-Hex Not applicable.
Poroshell 120 Bonus RP Not applicable.

Other EU regulations

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

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

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category |
|--------------------------------------|
| Poroshell 120, SB-Aq P5c |
| Poroshell 120, Phe-Hex P5c |
| Poroshell 120 Bonus RP P5c |

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Europe : All components are listed or exempted.

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SECTION 15: Regulatory information

| | |
|--------------------------|--|
| 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. |

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

| Classification | Justification |
|---|---|
| Poroshell 120, SB-Aq 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, SB-Aq 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 | |

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SECTION 16: Other information

| | |
|--------------------------------------|--|
| 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, SB-Aq Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2 | ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 |
| Poroshell 120, Phe-Hex Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2 | ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 |
| Poroshell 120 Bonus RP Acute Tox. 4 Eye Irrit. 2 Flam. Liq. 2 | ACUTE TOXICITY - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 |

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