

# SAFETY DATA SHEET



ZORBAX 300SB-C18 Chromatography Columns with Acetonitrile and Water - 10-30mL Solvent, Part Number 895100-902

## 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** : ZORBAX 300SB-C18 Chromatography Columns with Acetonitrile and Water - 10-30mL Solvent, Part Number 895100-902  
**Part no.** : 895100-902

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

**Identified uses** : Analytical chemistry.  
LC column  
895100-902 300SB-C18, 21.2 x 100mm, 5um, PrepHT, 16mL solvent  
**Uses advised against** : None known.

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

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000  
**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

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

## SECTION 2: Hazards identification

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

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture (encapsulated in article)

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

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

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

### 2.2 Label elements

**Hazard pictograms** :



**ZORBAX 300SB-C18 Chromatography Columns with Acetonitrile and Water - 10-30mL Solvent, Part Number 895100-902**

## SECTION 2: Hazards identification

|                                                                                                                                           |                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal word</b>                                                                                                                        | : Danger                                                                                                                                                                                                                              |
| <b>Hazard statements</b>                                                                                                                  | : H225 - Highly flammable liquid and vapour.<br>H319 - Causes serious eye irritation.                                                                                                                                                 |
| <b>Precautionary statements</b>                                                                                                           |                                                                                                                                                                                                                                       |
| <b>Prevention</b>                                                                                                                         | : P280 - Wear eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                                        |
| <b>Response</b>                                                                                                                           | : P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| <b>Storage</b>                                                                                                                            | : Not applicable.                                                                                                                                                                                                                     |
| <b>Disposal</b>                                                                                                                           | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                            |
| <b>Supplemental label elements</b>                                                                                                        | : Not applicable.                                                                                                                                                                                                                     |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | : Not applicable.                                                                                                                                                                                                                     |
| <b>Special packaging requirements</b>                                                                                                     |                                                                                                                                                                                                                                       |
| <b>Tactile warning of danger</b>                                                                                                          | : <input checked="" type="checkbox"/> Not applicable.                                                                                                                                                                                 |

### 2.3 Other hazards

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

| Product/ingredient name | Identifiers                                          | %         | Classification                                                                                                                                                                                | Specific Conc. Limits, M-factors and ATEs                                                   | Type    |
|-------------------------|------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------|
| Acetonitrile            | EC: 200-835-2<br>CAS: 75-05-8<br>Index: 608-001-00-3 | ≥10 - <25 | Flam. Liq. 2, H225<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Eye Irrit. 2, H319<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | ATE [Oral] = 500 mg/kg<br>ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |

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## 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, 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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : 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** : 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** : 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** : 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.
- Protection of first-aiders** : 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** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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## SECTION 4: First aid measures

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

- Notes to physician** : 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** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : 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** : 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** : 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** : 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** : 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** : 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** : 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** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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## SECTION 6: Accidental release measures

**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

**Protective measures** : 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** : 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** : 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 |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonne                      | 50000 tonne             |

### 7.3 Specific end use(s)

**Recommendations** : Industrial applications, Professional applications.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

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

### 8.1 Control parameters

#### Occupational exposure limits

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

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## SECTION 8: Exposure controls/personal protection

### Biological exposure indices

None known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| Product/ingredient name | Type | Exposure             | Value                 | Population         | Effects  |
|-------------------------|------|----------------------|-----------------------|--------------------|----------|
| Acetonitrile            | DNEL | Long term Oral       | 0.4 mg/kg bw/day      | General population | Systemic |
|                         | DNEL | Short term Oral      | 0.6 mg/kg bw/day      | General population | Systemic |
|                         | DNEL | Long term Dermal     | 1.2 mg/kg bw/day      | General population | Systemic |
|                         | DNEL | Long term Inhalation | 2.4 mg/m <sup>3</sup> | General population | Systemic |

### 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.

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## SECTION 8: Exposure controls/personal protection

- 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** : Solid. ( containing flammable liquid )
- Colour** :  White.
- Odour** :  Characteristic.
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flammability** : Contains: Flammable liquid
- Upper/lower flammability or explosive limits** :  Lower: 4%  
Upper: 16%
- Flash point** :  Closed cup: -18 to 23°C

| Auto-ignition temperature           | Ingredient name | °C  | Method |
|-------------------------------------|-----------------|-----|--------|
| <input checked="" type="checkbox"/> | Acetonitrile    | 524 |        |

**Decomposition temperature** : Not available.

**pH** :  Not available.

**Viscosity** : Not available.

| Solubility(ies)                     | Media            | Result    |
|-------------------------------------|------------------|-----------|
| <input checked="" type="checkbox"/> | Mobile phase     | Soluble   |
|                                     | Stationary phase | Insoluble |

**Partition coefficient: n-octanol/water** : Not applicable.

| Vapour pressure                     | Ingredient name | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |      |        |
|-------------------------------------|-----------------|-------------------------|-----|--------|-------------------------|------|--------|
|                                     |                 | mm Hg                   | kPa | Method | mm Hg                   | kPa  | Method |
| <input checked="" type="checkbox"/> | Acetonitrile    | 70.89                   | 9.5 |        |                         |      |        |
|                                     | water           | 23.8                    | 3.2 |        | 92.258                  | 12.3 |        |

**Evaporation rate** : Not available.

**Relative density** : Not available.

**Vapour density** : Not available.

**Explosive properties** :  Not available.

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## SECTION 9: Physical and chemical properties

**Oxidising properties** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : 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** :  Reactive or incompatible with the following materials:  
oxidising materials  
Incompatible with hydrogen fluoride.

**10.6 Hazardous decomposition products** : 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 |
|--------------------------------------------------|------------------------|---------|------------|----------|
| <input checked="" type="checkbox"/> acetonitrile | LC50 Inhalation Vapour | Rat     | 17100 ppm  | 4 hours  |
|                                                  | LD50 Oral              | Rat     | 2460 mg/kg | -        |

#### 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) |
|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> ZORBAX 300SB-C18 Chromatography Columns with Acetonitrile and Water - 10-30mL Solvent, Part Number 895100-902 | 2500         | 5500.0         | N/A                      | 55.0                        | N/A                                 |
| <input checked="" type="checkbox"/> acetonitrile                                                                                                  | 500          | 1100           | N/A                      | 11                          | N/A                                 |

#### Irritation/Corrosion

| Product/ingredient name                          | Result                   | Species | Score | Exposure        | Observation |
|--------------------------------------------------|--------------------------|---------|-------|-----------------|-------------|
| <input checked="" type="checkbox"/> 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.

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## SECTION 11: Toxicological information

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : Causes serious eye irritation.

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

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin contact** : No specific data.

**Eye contact** : 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** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result                                                                                                                                                                                             | Species                                                                                                                                          | Exposure                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| acetonitrile            | Acute IC50 3685000 µg/l Fresh water<br>Acute LC50 3600000 µg/l Fresh water<br>Acute LC50 1000000 µg/l Fresh water<br>Chronic NOEC 1000000 µg/l Fresh water<br>Chronic NOEC 160000 µg/l Fresh water | Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna<br>Fish - Pimephales promelas<br>Aquatic plants - Lemna minor<br>Daphnia - Daphnia magna | 96 hours<br>48 hours<br>96 hours<br>96 hours<br>21 days |

### 12.2 Persistence and degradability

| Product/ingredient name | Test                                                                     | Result                   | Dose             | Inoculum         |
|-------------------------|--------------------------------------------------------------------------|--------------------------|------------------|------------------|
| acetonitrile            | OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | 70 % - Readily - 21 days | -                | Activated sludge |
| Product/ingredient name | Aquatic half-life                                                        | Photolysis               | Biodegradability |                  |
| acetonitrile            | -                                                                        | -                        | Readily          |                  |

### 12.3 Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| acetonitrile            | -0.34              | 3   | low       |

### 12.4 Mobility in soil

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

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

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

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

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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 or ID number     | UN3175                                                                                     | UN3175                                                                                     | UN3175                                                                                       |
| 14.2 UN proper shipping name    | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Acetonitrile)                                  | SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Acetonitrile)                                  | Solids containing flammable liquid, n.o.s. (Acetonitrile)                                    |
| 14.3 Transport hazard class(es) | 4.1<br> | 4.1<br> | 4.1<br> |
| 14.4 Packing group              | II                                                                                         | II                                                                                         | II                                                                                           |
| 14.5 Environmental hazards      | No.                                                                                        | No.                                                                                        | No.                                                                                          |

### Additional information

**Remarks** : Excepted Quantity

**ADR/RID** : **Hazard identification number** 40  
**Limited quantity** 1 kg  
**Special provisions** 216, 274, 601  
**Tunnel code** (E)

**IMDG** : **Emergency schedules** F-A, S-I  
**Special provisions** 216, 274

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 15 kg. Packaging instructions: 445. Cargo Aircraft Only: 50 kg. Packaging instructions: 448. Limited Quantities - Passenger Aircraft: 5 kg. Packaging instructions: Y441.

**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.

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## SECTION 15: Regulatory information

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

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

##### Annex XIV - List of substances subject to authorisation

###### Annex XIV

None of the components are listed.

###### Substances of very high concern

None of the components are listed.

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

Not listed.

**Label** : 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 |
|----------|
| 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.

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## SECTION 15: Regulatory information

|                                |                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>China</b>                   | : All components are listed or exempted.                                                                                                           |
| <b>Eurasian Economic Union</b> | : <b>Russian Federation inventory</b> : All components are listed or exempted.                                                                     |
| <b>Japan</b>                   | : <b>Japan inventory (CSCL)</b> : All components are listed or exempted.<br><b>Japan inventory (ISHL)</b> : All components are listed or exempted. |
| <b>New Zealand</b>             | : All components are listed or exempted.                                                                                                           |
| <b>Philippines</b>             | : Not determined.                                                                                                                                  |
| <b>Republic of Korea</b>       | : All components are listed or exempted.                                                                                                           |
| <b>Taiwan</b>                  | : <b>All</b> components are listed or exempted.                                                                                                    |
| <b>Thailand</b>                | : Not determined.                                                                                                                                  |
| <b>Turkey</b>                  | : All components are listed or exempted.                                                                                                           |
| <b>United States</b>           | : All components are active or exempted.                                                                                                           |
| <b>Viet Nam</b>                | : Not determined.                                                                                                                                  |

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

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

| Classification                           | Justification                               |
|------------------------------------------|---------------------------------------------|
| Flam. Liq. 2, H225<br>Eye Irrit. 2, H319 | On basis of test data<br>Calculation method |

### Full text of abbreviated H statements

|                                      |                                                                                                                                                        |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| H225<br>H302<br>H312<br>H319<br>H332 | Highly flammable liquid and vapour.<br>Harmful if swallowed.<br>Harmful in contact with skin.<br>Causes serious eye irritation.<br>Harmful if inhaled. |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                                              |                                                                                                                 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Acute Tox. 4<br>Eye Irrit. 2<br>Flam. Liq. 2 | ACUTE TOXICITY - Category 4<br>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 2 |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|

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**Version** : 1.1

[Notice to reader](#)

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## **SECTION 16: Other information**

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