

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 1 of 8

## Polyvinyl Polypyrrolidone

### SECTION 1: Identification

#### Product identifier

**Product name:** Polyvinyl Polypyrrolidone

**Product code:** PP2865

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

##### United States

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

#### Emergency telephone number:

##### United States

##### ChemTel Inc

+1(800)255-3924

+1(813)248-0585

### SECTION 2: Hazard identification

#### GHS classification:

Combustible dust

#### Label elements

**Hazard pictograms:** None

**Signal word:** Warning

**Hazard statements:** None

**Precautionary statements:** None

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

| Identification            | Name                       | Weight % |
|---------------------------|----------------------------|----------|
| CAS number:<br>25249-54-1 | Poly(vinylpolypyrrolidone) | 100      |

**Additional Information:** None

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 2 of 8

## Polyvinyl Polypyrrolidone

### SECTION 4: First-aid measures

#### Description of first-aid measures

##### General notes:

Not determined or not available.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

##### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

##### After ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

##### Acute symptoms and effects:

Not determined or not available.

##### Delayed symptoms and effects:

Not determined or not available.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not available.

##### Notes for the doctor:

Not determined or not available.

### SECTION 5: Fire-fighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

##### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

High concentrations of dust may lead to combustible mixtures with air

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 3 of 8

### Polyvinyl Polypyrrolidone

#### SECTION 6: Accidental release measures

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

- Ensure adequate ventilation
- Ensure air handling systems are operational
- Wear protective eye wear, gloves and clothing
- Wear dust mask or respirator
- Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration

##### Environmental precautions:

- Should not be released into the environment
- Prevent from reaching drains, sewer or waterway

##### Methods and material for containment and cleaning up:

- Wear protective eye wear, gloves and clothing
- Wear dust mask or respirator
- Prevent generation of combustible dust in air mixtures
- Sweep or scoop up solid material while minimizing dust generation
- Dispose of contents / container in accordance with local regulations

##### Reference to other sections:

- Not determined or not applicable.

#### SECTION 7: Handling and storage

##### Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing dust.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
- Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
- Prevent generation of combustible dust in air mixtures.

##### Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Keep container dry.
- Store in a cool, well-ventilated area.

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

##### Occupational Exposure limit values:

- No occupational exposure limits noted for the ingredient(s).

##### Biological limit values:

- No biological exposure limits noted for the ingredient(s).

##### Information on monitoring procedures:

- Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
- Biological monitoring may also be appropriate for some substances.

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 4 of 8

### Polyvinyl Polypyrrolidone

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

|   |                                  |
|---|----------------------------------|
| <b>Appearance (physical state, color):</b>      | White solid,                     |
| <b>Odor:</b>                                    | Odorless.                        |
| <b>Odor threshold:</b>                          | Not determined or not available. |
| <b>pH-value:</b>                                | 5.0 - 8 at 10 g/l at 20°C (68°F) |
| <b>Melting/Freezing point:</b>                  | >300°C                           |
| <b>Boiling point/range:</b>                     | Not determined or not available. |
| <b>Flash point:</b>                             | 93°C                             |
| <b>Evaporation rate:</b>                        | Not determined or not available. |
| <b>Flammability (solid, gaseous):</b>           | Not determined or not available. |
| <b>Explosion limit upper:</b>                   | Not determined or not available. |
| <b>Explosion limit lower:</b>                   | Not determined or not available. |
| <b>Vapor pressure:</b>                          | Not determined or not available. |
| <b>Vapor density:</b>                           | 3.83                             |
| <b>Density:</b>                                 | Not determined or not available. |
| <b>Relative density:</b>                        | Not determined or not available. |
| <b>Solubilities:</b>                            | Partially soluble in water.      |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined or not available. |

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 5 of 8

### Polyvinyl Polypyrrolidone

|  |                                  |
|--|----------------------------------|
| <b>Auto/Self-ignition temperature:</b> | 364°C                            |
| <b>Decomposition temperature:</b>      | Not determined or not available. |
| <b>Dynamic viscosity:</b>              | Not determined or not available. |
| <b>Kinematic viscosity:</b>            | Not determined or not available. |
| <b>Explosive properties</b>            | Not determined or not available. |
| <b>Oxidizing properties</b>            | Not determined or not available. |

#### Other information

|                         |       |
|-------------------------|-------|
| <b>Molecular weight</b> | 74.54 |
|-------------------------|-------|

### SECTION 10: Stability and reactivity

#### Reactivity:

Does not react under normal conditions of use and storage.

#### Chemical stability:

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### Conditions to avoid:

Prevent generation of combustible dust in air mixtures.

Incompatible materials. Exposure to moist air or water.

#### Incompatible materials:

Strong oxidizers.

#### Hazardous decomposition products:

Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 6 of 8

### Polyvinyl Polypyrrolidone

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

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

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:**

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 7 of 8

### Polyvinyl Polypyrrolidone

| Name                       | Result  |
|----------------------------|---|
| Poly(vinylpolypyrrolidone) | Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected. |

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### Canadian Transportation of Dangerous Goods (TDG)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

#### International Maritime Dangerous Goods (IMDG)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                               |               |
|-------------------------------|---------------|
| UN number                     | Not regulated |
| UN proper shipping name       | Not regulated |
| UN transport hazard class(es) | None          |
| Packing group                 | None          |
| Environmental hazards         | None          |
| Special precautions for user  | None          |

### SECTION 15: Regulatory information

#### Canada regulations

## Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.26.2018

Page 8 of 8

### Polyvinyl Polypyrrolidone

#### Domestic substances list (DSL):

|            |                            |               |
|------------|----------------------------|---------------|
| 25249-54-1 | Poly(vinylpolypyrrolidone) | Not<br>Listed |
|------------|----------------------------|---------------|

Non-domestic substances list (NDSL): Not determined.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 02.26.2018

**End of Safety Data Sheet**