

# Material Safety Data Sheet

## Section 1

**Contact Name & Address:**

American Polymer Standards Corporation,  
8680 Tyler Blvd., Mentor, OH 44060

**Product Name:** Polyvinylpyrrolidone

**CAS #:** 9003-39-8

**HMIS RATING:**

**Health:** 0

**Fire:** 0

**Reactivity:** 0

**Personal Protection:** B

**Emergency Telephone No. :**

(440) 255-2211

**Synonyms:** PVPR; 2-Pyrrolidione; Vinylpyrrolidinone polymer; Providone

**Formula:** (C<sub>6</sub>H<sub>9</sub>NO)<sub>n</sub>

## Section 2 (Physical Data)

**Physical Appearance:** Solid Powder

**Boiling Point:** 90°C (194°F)

**Critical Temperature:** Not Available

**Vapor Pressure:** Not Available

**Volatility:** Not Available

**Odor:** Odorless

**Melting Point:** 13.9°C (557°F)

**Specific Gravity:** Density 1.23 (water = 1)

**Vapor Density:** Not Available

**Solubility:** Soluble in Water

## Section 3 (Fire & Explosion Hazards Data)

**Flammability of Product:** May be combustible at high temperatures.

**Auto-Ignition Temp.:** Not Available

**Flash Points:** Not Available

**Flammable Limits:** Not Available

**Products of Combustion:** Carbon oxides and Nitrogen oxides

**Fire & Explosion Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat. Slightly flammable in presence of open flames and sparks.

**Fire Fighting Media and Instructions:** Use DRY Chemical Powder, Use water spray, fog or foam. Do Not Use Water Jet! Firefighters must wear SCBA & Full Protective Clothing.

**Special Remarks on Fire & Explosion Hazards:** Fire is possible at elevated temperatures. Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust.

## Section 4 (First Aid Measures)

**Eye Contact:** Check for & remove contact lenses. Immediately flush eyes with running water for a least 15 min., keeping eyelids open. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Seek medical attention is irritation develops.

**Inhalation:** Allow the victim to rest in a well ventilated area. If not breathing give artificial respiration. If breathing is difficult give oxygen. Seek immediate medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing.

## Section 5 (Toxicology Information)

**Route of Exposure:** **Skin:** May cause skin irritation, May be harmful if absorbed through the skin. **Eyes:** May cause eye irritation. May cause allergic skin reaction. **Inhalation:** May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. **Ingestion:** May be harmful if swallowed.

**Toxicity Data:**

**Toxic to Animals:** Acute oral toxicity (LD50: 40000 mg/kg (mouse)

**Chronic Effects on Humans:** Carcinogenic effects: 3 (not classifiable for human) by IARC

**Other Toxic Effects on Humans:** May cause irritation in cases of contact with skin, ingestion and inhalation. Irritation symptoms by Inhalation may include coughing, sore throat, labored breathing and chest pain. Irritation symptoms of gastrointestinal tract may include nausea, vomiting, hyper motility and diarrhea.

### **Section 6 (Stability & Reactivity Data)**

**Stability:** Product is Stable at typical use temperatures      **Instability Temp.:** Not Available  
**Conditions of Instability:** Excess Heat      **Polymerization:** Will not Occur  
**Hazardous Decomposition of products formed under fire conditions:** Not Available  
**Incompatibility with various substances:** Reactive with oxidizing agents.

### **Section 7 (Accidental Release Measures)**

**Spill:** Use appropriate tools to clean spill. Store spilled material in a suitable container for disposal.  
**Disposal:** Consult and follow local and regional authority requirements

### **Section 8 (Special Protection Information)**

**Personal Protection:** Splash goggles, Lab coat, Gloves and Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
**Exposure Limits:** Not Available (AVOID BRATHING DUST)  
**Other Protective Equipment:** Rubber Boots, Safety Shower and Eye Bath after clean up.  
**Other Precautions:** Use protective clothing, gloves, safety goggles and mask. Wash thoroughly after handling.

### **Section 9 (Storage & Handling)**

**Handling:** Use good housekeeping procedures. Normal measures for preventive fire protection.  
**Storage:** Keep container dry and tightly closed. Keep in a cool place that is well- ventilated. Material is Hygroscopic

### **Section 10 (Transport & Regulatory Information)**

#### **DOT**

**Proper Shipping Name:** None

**Non-Hazardous for Transport:** This substance is considered non-hazardous for transport.

**Non-Hazardous for Air Transport:** This substance is considered non-hazardous for air transport

#### **USA Regulatory Information**

**SARA Listed:** No

**TSCA Inventory Listed:** On the TSCA Inventory or exempt for TSCA Inventory requirements

#### **Canada Regulatory Information**

**WHMIS Classification:** Not controlled under WHMIS (Canada)

**DSL:** Yes

**NDSL:** No

**DISCLAIMER: For R&D use only. Not for use in Food, Drugs or Cosmetics. The information contained in this MSDS is the most accurate and complete information available to us. APSC expresses or implies no warranty to the information provided and assumes no liability. The material covered in this MSDS is only provided in 1 gram quantities and is not expected to posse any health or environmental risks based on these quantities.**

**Last Updated: 6/27/2008**