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## Material Safety Data Sheet

### PVP

#### Section 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

**Product Name:** PVP /POVIDONE /POLYVINYLPRROLIDONE

**CAS Number:** 9003-39-8

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

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#### Section 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:**

| Name | CAS No.   | % by weight |
|------|-----------|-------------|
| PVP  | 9003-39-8 | ≥95         |

#### Section 3. HAZARDS IDENTIFICATION

**Harmful if swallowed.**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

**Section 4. FIRST AID MEASURES****Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact:**

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Section 5. FIRE-FIGHTING MEASURES****Flash Point (°F):**

Not determined

**Extinguishing Media:**

All standard firefighting media

**Unusual Fire/Explosion Hazards:**

Powdered material may form explosive dust-air mixtures.

**Special Protective Equipment:**

Fire fighters should wear full protective clothing, including self-contained breathing equipment.

**Section 6. ACCIDENTAL RELEASE MEASURES****Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Section 7. HANDLING AND STORAGE****Handling:**

Avoid generating or breathing dust. Minimize dust generation and accumulation.

**Storage:**

Keep containers tightly closed when not in use. Store in a cool, dry, ventilated place, out of direct sunlight.

**Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering Controls:**

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

**Personal Protective Equipment****Eyes:**

Wear safety glasses and chemical goggles if splashing is possible.

**Skin:**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to minimize contact with skin.

**Respirators:**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**Section 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Powder

**Color:** White or Off White

**PH (5% solution):** 3.0-7.0

**Boiling Point (°F):** Not determined

**Melting Point/Freezing Point (°F):** Not determined

**Vapor Pressure:** Not determined

**Solubility:** Soluble in Water

**Section 10. STABILITY AND REACTIVITY****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, strong oxidants.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, strong bases.

**Hazardous Decomposition Products:**

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

**Hazardous Polymerization:**

Not been reported.

**Section 11. TOXICOLOGICAL INFORMATION**

**Toxicity 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:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: It is not considered a primary irritant. However, it may cause skin irritation.

Eyes: May cause eye irritation.

Inhalation: Breathing dust may cause respiratory tract irritation. Symptoms may include coughing, sore throat, labored breathing, and chest pain.

Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, hypermotility, and diarrhea.

Chronic Potential Health Effects:

Ingestion: Prolonged or repeated ingestion may affect the urinary system, and spleen.

**Section 12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

**Section 13. DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14. TRANSPORT INFORMATION**

IATA No information available.

IMO No information available.

ID/ADR No information available.

**Section 15. REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# is listed on Canada's DSL List.

CAS# is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# is listed on the TSCA inventory

**Section 16. OTHER INFORMATION**

**Important Note:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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If you have any questions, please contact us by follow:

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