



## 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Polyvinylpyrrolidone, PVP-40

PRODUCT NUMBER: P728

COMPANY INFO: PhytoTech Labs Inc.  
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EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only  
(INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Laboratory-use or Further Manufacture only

RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, in vitro diagnostics, or as household chemicals.

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture:

GHS Classification:

Not a hazardous substance or mixture.

### GHS Label elements, including hazard and precautionary statements:

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: PVP-40; Polyvidone, Povidone, 2-Pyrrolidinone, 1-ethenyl-, homopolymer

CAS No: 9003-39-8

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

Molecular Weight: 40,000 Avg.

Ingredient	CAS Number	Percent	Hazardous
Polyvinylpyrrolidone	9003-39-8	>98 %	No exposure limits established by OSHA or ACGIH

## 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### Route of Entry

### Symptoms

### First Aid Procedures

Ingestion

May cause irritation if swallowed

If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. **Get medical attention.**

Inhalation

May cause irritation to respiratory tract

Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.**

Eye Contact

Direct contact may cause irritation. May cause redness, tearing, or blurred vision.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. **Get medical attention if irritation persists.**

Skin Contact                   Irritating. May cause reddening, itching or inflammation.                   Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation persists.**

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

## 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:                   Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters:                   In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products:                   No data available

Toxic Gases Produced:                   Carbon monoxide, carbon dioxide, nitrogen oxides

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:                   Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup:                   Wear suitable protective clothing and a self-contained breathing apparatus if available. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water.

## 7. HANDLING AND STORAGE

Precaution for Safe Handling:                   Avoid contact with skin and eyes. Avoid incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage:                   Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. This material is hygroscopic. Protect from moisture.

Incompatibilities:                   Strong oxidizing agents

Recommended Storage Temperature:                   Room Temperature

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs):                   No data available

Threshold Limit Values (TLVs):                   No data available

Engineering Controls:                   Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

    Eye/Face Protection:                   Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

    Skin Protection:                   Protective gloves

    Body Protection:                   Lab coat

    Respiratory Protection:                   Respiratory protection is not required. Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance. A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white powder	
pH:	No data available	
Solubility:	Soluble in water	
Melting Range:	No data available	
Vapor Density:	No data available	
Vapor Pressure:	No data available	
Specific Gravity:	No data available	
Odor:	Odorless	
Odor Threshold:	No data available	
Viscosity:	No data available	
Relative Density:	No data available	
Evaporation Rate:	No data available	
Initial Boiling Point and Boiling Range:	No data available	
Flammability (solid, gas):	No data available	
Partition coefficient: n-octanol/water):	No data available	
Auto-ignition Temperature:	No data available	
Decomposition Temperature:	No data available	
Flash Point (Closed Cup):	No data available	
Flammable Limits:	Upper (%) – No data available	Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity:	No data available	
Chemical Stability:	Stable under normal conditions of use	
Possibility of Hazard Reactions:	Will not occur	
Conditions to Avoid:	Moisture, air	
Incompatibles Materials:	Strong oxidizing agents	
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride	

## 11. TOXICOLOGICAL INFORMATION

Toxicity:	LD <sub>50</sub> (Oral-Rat)(mg/Kg):	100,000
	LD <sub>50</sub> (IP-Mouse)(g/Kg):	12
	LD <sub>50</sub> (Oral-Mouse)(g/Kg):	>40
Carcinogenicity:	NTP:	No
	IARC:	Group 3
	OSHA Reg:	No
Reproductive Toxicity:	No data available	
Symptoms Associated with Overexposure:	Irritation, itching, gastrointestinal upset, headache, nausea, vomiting, possible tumorigenic effects, liver impairment, urinary tract impairment, breathing difficulties	
Specific Target Organ Toxicity:	Single Exposure:	No data available

Repeated Exposure: No data available

Target Organs: Liver, endocrine system

Routes of Entry: Inhalation, ingestion, skin and eye contact

NIOSH/RTECS NO: TR8370000

***The toxicological properties of this product have not been thoroughly investigated***

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

## 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

## 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

Reportable Quantity: N/A

UN/NA: N/A

Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

Hazard Class: N/A

UN/NA: N/A

Labels: N/A

## 15. REGULATORY INFORMATION

TSCA: Yes

### SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: No

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

- Massachusetts Right to Know Components:** This product is not on the Massachusetts Substance List (MSL).
- Pennsylvania Right to Know Components:** This product is not listed on the Pennsylvania Code’s Hazardous Substance List (Chapter 323).
- New Jersey Right to Know Components:** This product is not listed amongst the New Jersey Right to Know Hazardous Substance List
- California Prop. 65 Components:** This product is not known to the State of California to cause cancer or reproductive toxicity.

**16. OTHER INFORMATION**

<b>HMIS Rating:</b>	<b>Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>	<b>Personal Protection</b>
	0	0	0	B
<b>NFPA Rating:</b>	<b>Health Hazard</b>	<b>Fire Hazard</b>	<b>Instability</b>	<b>Special Hazard</b>
	0	0	0	

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