



# Material Safety Data Sheet

72807D

Revision Date: 07/16/2004

Issued: 07/16/2004

## POLYCLAR® V

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Responsible Party:** International Specialty Products  
1361 Alps Rd.  
Wayne, N.J. 07470  
U.S.A.  
Telephone: (973) 628-4000

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (Spill Related Emergencies)  
PROSAR: 1-800-241-7439 (Health Related Emergencies)

**Prepared By:** Product Stewardship

**Product Id:** 72807D

**Product Name:** POLYCLAR® V

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

**CAS Name:** 2-Pyrrolidinone, 1-ethenyl-, homopolymer

**Synonyms:** PVP (INCI NAME)

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

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components:	Weight %	ACGIH Threshold Limit Values Data - Time Weighted Average (TWA):	OSHA Specifically Regulated Substances Data - Time Weighted Average (TWA):
2-Pyrrolidinone, 1-Ethenyl-, Homopolymer 9003-39-8	100	No TLV/TWA Established	No TLV/TWA Established

**Statement of Hazardous Nature:** Powdered material may form explosive dust-air mixtures.

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

POWDERED MATERIALS MAY FORM EXPLOSIVE DUST-AIR MIXTURES.

#### Hazard Overview

**Target Organs:** None effected.

**Primary Entry Routes:** Not applicable.

**Acute Health Hazards:** None known.

**Chronic Health Hazards:** None known

#### Signs and Symptoms of Overexposure

**Eye Contact:** Not a hazard under normal use conditions.

**Skin Contact:** Not a hazard under normal use conditions.

**Ingestion:** Not a hazard under normal use conditions.

**Inhalation:** Not a hazard under normal use conditions.

#### 4. FIRST AID MEASURES

**Skin Contact:** Wash with soap and water.

**Ingestion:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**Eye Contact:** Flush eyes with copious amounts of water.

#### 5. FIRE FIGHTING MEASURES

**NFPA Rating:** Health: 1 Flammability: 0 Reactivity: 0

**Flash Point (°F):** Not determined

**Extinguishing Media:** All standard firefighting media

**Unusual Fire/Explosion Hazards:** Powdered material may form explosive dust-air mixtures. This material has an explosion hazard less than Pittsburgh coal dust.

**Special Protective Equipment:** Fire fighters should wear full protective clothing, including self-contained breathing equipment.

#### HMIS RATING:

**HEALTH** 0

**FLAMMABILITY** 0

**PHYSICAL HAZARD** 0

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures:** Use appropriate protective equipment.

**Procedure for Cleaning/Absorption:** Contain spill with sand or other inert materials.

#### 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 place, out of direct sunlight.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Use in a well ventilated area.

**Respiratory Protection:** Use in a well ventilated area.

**Hand Protection:** Use gloves as a standard industrial handling procedure.

**Eye Protection:** Safety glasses.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Powder

**Color:** Off white

<b>Odor:</b>	Not determined
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	3.0-7.0 (5% solution)
<b>Specific Gravity:</b>	Not determined
<b>Boiling Point (°F):</b>	Not determined
<b>Melting Point/Freezing Point(°F):</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Solubility:</b>	Insoluble in water

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of handling, use and transportation.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Keep away from heat, sparks and flame. Minimize dust generation and accumulation.
<b>Materials to Avoid:</b>	Strong oxidizing agents. Strong reducing agents.
<b>Hazardous Decomposition Products:</b>	Oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicity Test:</b>	
<b>Acute Oral LD50 (mg/kg):</b>	>5,000 (Rats & Mice)
<b>Sensitization:</b>	Human RIPT: Non-sensitizing (PVP)
<b>Mutagenicity:</b>	Non-mutagenic. (Ames Assay; Dominant Lethal Test on mice; L5178Y Mouse (TK+/-) Lymphoma Assay; Bone Marrow Chromosomal Aberration Assay; BALB/C 3T3 Transformation) (PVP)
<b>Reproductive/Developmental Toxicity:</b>	Various studies of the reproductive toxicity of PVP in rats and rabbits produced no evidence of embryo toxicity or teratogenicity.
<b>Carcinogenicity:</b>	Exposure of dogs and various rodent species to PVP via the diet, injection and implant at up to 10% produced no signs of carcinogenic activity. Exposure up to 10% in the diets of rats and dogs produced no signs of toxicity or carcinogenic potential.
<b>Teratogenicity:</b>	Non-teratogenic
<b>Skin Irritation:</b>	Non irritating (Human RIPT). (PVP)
<b>Eye Irritation:</b>	Non-irritating to rabbit eye. (PVP)
<b>Other Information:</b>	Sub-Chronic Oral Toxicity: Exposure up to 10% in the diets of rats produced no signs of toxicity. Exposure up to 10% in the diet of dogs produced no signs of toxicity. (tested on analogous PVP)

## 12. ECOLOGICAL INFORMATION

<b>Biodegradability:</b>	Readily Biodegradability: Not readily biodegradable (11% in 28 Days) (PVP)
--------------------------	--

**Aquatic Toxicity:** Juvenile Turbot: 96-hr. LC50 >1,000 mg/L (PVP)  
Corophium Volutator; 10-Day LC50 >1,000 mg/L (PVP)  
Marine Algae; 72-hr. EC50 >1,000 mg/L (PVP)  
Salmon; PVP at up to 5% in the diet during smolt produced no signs of toxicity.  
Salmon; PVP at up to 5% in the diet for 112 days did not produce any signs of toxicity.

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.

### 14. TRANSPORT INFORMATION

**Land Transportation:**

**DOT (Non-Bulk):**

**DOT Shipping Name:** NOT REGULATED

**UN/NA Number:** NONE

**Hazard Class:** NONE

**DOT (Bulk):**

**DOT Shipping Name:** NOT REGULATED

**UN/NA Number:** NONE

**Air Transportation (IATA):**

**Proper Shipping Name:** NOT REGULATED

**UN Number:** NONE

**Hazard Classification:** NONE

**Sea Transportation (IMO):**

**Proper Shipping Name:** NOT REGULATED

**UN/ID Number:** NONE

**Hazard Classification:** NONE

**TDG (Canada):**

**Proper Shipping Name:** NOT REGULATED

**Hazard Class:** NONE

### 15. REGULATORY INFORMATION

**TSCA Inventory List:** This product and/or its components is listed on TSCA.

**California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List:** None of the components of this product is listed on CALPROP.

**WHMIS Ingredient Disclosure List:** None of the components of this product is listed on WHMIS Ingredient Disclosure list.

**Canada DSL Inventory List:** This product and/or its components is listed on DSL.

**Canada NDSL Inventory List:** This product and/or its components is not listed on NDSL.

**Japan Inventory of Existing & New Chemical Substances (ENCS):** This product and/or its components is listed on ENCS.

**Australia Inventory of Chemical Substances (AICS) List:** This product and/or its components is listed on AICS.

**EU EINECS List:** This product and/or its components is not listed on or is exempt from EINECS.

**ELINCS:** This product and/or its components is not listed on ELINCS.

## **16. OTHER INFORMATION**

**Prepared By:** Product Stewardship

**Legend:** N.Av.= Not Available; N.Ap.= Not Applicable

**Important Note:** For purposes of this MSDS, International Specialty Products, as responsible party, provides the information herein which is intended for use by persons who have or should obtain professional knowledge and experience in the subjects discussed. ISP's industrial products are used as materials in the production of products by industrial customers. ISP usually has only limited information about the products of its customers and their composition, methods of manufacture and use. Accordingly, ISP MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS OR RELIABILITY OF INFORMATION HEREIN EXCEPT THAT SUCH INFORMATION IS, TO THE BEST OF ISP'S KNOWLEDGE AND BELIEF, ACCURATE AS OF THE DATE INDICATED. ISP recommends that customers independently test and evaluate its products and their products and processes in which ISP products are used in order to decide their safety and effectiveness.

**\*\*\*END OF MSDS\*\*\***