



# Purity Systems Inc.

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: WP-1 Product Number: --  
Product Use: Specialty Resin CAS Number: Not applicable to blends.

Company Identification: Purity Systems, Inc. Web: [www.puritysystemsinc.com](http://www.puritysystemsinc.com)  
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## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

CONTAINING: HAZARDOUS AND/OR REGULATED COMPONENTS

Chemical Name	Amount	CAS Number	OSHA PEL (mg/m3)	ACGIH TWA (mg/m3)
SILICA POLYETHYLENIMINE	90-100%	Proprietary	N.E.	N.E.
Water	0-10%	7732-18-5	--	--

**Note:** The OSHA Permissible Exposure Limits (PEL) are determined from the percentage of Silica from airborne samples.

### Abbreviations:

N.A. - Not Applicable N.E. - None Established RD - Respirable Dust  
TD - Total Dust I - Inhalable R - Respirable

California Prop 65: This product does NOT contain an ingredient which is known to the state of California to cause cancer, birth defects, or other reproductive harm. See Section 15.

HAZARDS DISCLOSURE: This product contains NO known hazardous materials in reportable levels as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 except as listed above. As defined under Sara 311 and 312, this product contains NO known hazardous materials.

## 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**WARNING: Avoid Inhalation of dust from this product.**

HMIS/NFPA Rating: Health - 2, Flammability - 0, Reactivity - 0, Personal Protection Index - T  
NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme  
Protective Equipment: T = Dust respirator under dust generating conditions.

### POTENTIAL HEALTH EFFECTS

INHALATION: Acute, short term exposure; mild and temporary discomfort to respiratory tract. Similar to nuisance dust..

INGESTION: No hazard known or expected.

SKIN CONTACT: No hazard known or expected. May cause skin irritation.

EYE CONTACT: Dust may cause mechanical irritation, redness, pain, and corneal damage if not flushed out promptly.

CHRONIC EXPOSURE: No data found.



CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No data found.

## 4. FIRST AID MEASURES

**INHALATION FIRST AID:** If a respiratory problem develops from dust. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility. Normally all that is required will be to bring victim to fresh clean air.

**SKIN CONTACT FIRST AID:** Wash off with soap and plenty of water. If skin irritation persists, call a physician.

**EYE CONTACT FIRST AID:** If dust comes into contact with eyes, immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**INGESTION FIRST AID:** Immediately give large volume of water to drink. If symptoms persist, call a physician.

**STATEMENT OF PRACTICAL TREATMENT:** Always have plenty of water available for first aid. Get medical attention if any symptoms develop or persist. This product is a desiccant and generates heat as it adsorbs water. The used product may retain materials of a hazardous nature. Identify those materials and treat symptomatically..

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES:** Not flammable.  
**FLAMMABLE LIMITS IN AIR, % by Volume:** Not applicable  
**AUTO IGNITION TEMPERATURE:** Not available

**EXTINGUISHING MEDIA:** Water, dry chemical, alcohol foam, or carbon dioxide. Water spray may be used to keep exposed material cool. Do not allow water runoff to enter sewers or waterways.

**FIRE & EXPLOSION HAZARDS:** The product itself does not burn. The used product can retain material of a hazardous nature. Identify that material and inform the fire fighters.

**SPECIAL PROTECTIVE EQUIPMENT:** In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Physical form requires no obvious personal protective equipment when cleaning up spills. Wear a dust mask if particulate count exceeds limits. See section 8.

**SPILLS PROCEDURE:** Sweep, shovel or vacuum spilled product into appropriate containers (do not use a vacuum if material has contacted a hydrocarbon material). Pick-up and arrange disposal without creating dust. Never use spilled product. Spilled product should be disposed of in accordance with all applicable government regulations.

**ENVIRONMENTAL PRECAUTIONS:** None.



## 7. HANDLING AND STORAGE

RECOMMENDED STORAGE CONDITIONS: Store in original container. Keep in a dry place.

HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures. Avoid breathing dust if present. Wash thoroughly after handling. Handle and open container with care. Avoid formation of dust particles. Avoid contact with skin and eyes. Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: See Section 2 above.

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the respirable particulate exposure limit is exceeded, wear a NIOSH approved dust mask. NIOSH classification N-100 or if oil/liquid aerosols are present P-100 (42 CFR 84).

SKIN PROTECTION: Protective gloves.

EYE PROTECTION: When mechanically working this product, safety glasses with side shields or coverall goggles are recommended for airborne dust exposures in excess of the applicable limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: powder, granular

ODOR: NO appreciable odor

SOLUBILITY IN WATER: insoluble

MELTING/FREEZING POINT: N/A

Auto ignition Temperature: N/D

VOC = None

COLOR: white to off-white

BOILING POINT: N/A (Not applicable)

SPECIFIC GRAVITY: Nominal SG

Evaporation Rate: N/A

pH: N/D

VAPOR PRESSURE: N/D

## 10. STABILITY AND REACTIVITY

STABILITY: The material is stable except with HF (hydrogen fluoride) or fluoride ion.

CONDITIONS TO AVOID: Contact with HF or fluoride ion.

POLYMERIZATION: Polymerization will not occur.

INCOMPATIBILITY: Contact with gaseous or aqueous HF or fluoride ion.

DECOMPOSITION PRODUCTS: No decomposition if used as directed. Contact with HF or fluoride ion might dissolve the silica backbone of the resin, making the material unusable, but not hazardous.



## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LC50/inhalation/rat = No data available.

Chronic toxicity:

EC Carcinogenic:

EC Mutagenic:

EC Toxic for Reproduction:

Classification of Ingredients

Not listed.

Not listed.

Not listed.

Carcinogenicity (ACGIH):

IARC classification:

Not listed

Routes of exposure: Exposure may occur via inhalation, contact with skin and eyes.

Irritation:

No data available.

Local effects:

Dust may cause mechanical irritation of eyes. Chronic, long term exposure (10 years - 30 years), may result in pulmonary fibrosis (silicosis). Aggravates bronchitis, asthma & emphysema.

Sensitization:

Not known to occur with this material.

RTECS #: No data available

## 12. ECOLOGICAL INFORMATION

Material offers no known environmental hazard.

## 13. DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying characteristics of hazardous waste (ignitability, corrosivity, reactivity or toxicity). Materials of a hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options..

**CONTAMINATED MATERIALS:** Wash contaminated clothing before reuse.

## 14. TRANSPORTATION INFORMATION

**Domestic (Land, D.O.T.), International (Water, I.M.O.), International (Air, I.C.A.O.)**

PRODUCT LABEL: **WP-1**

UN NUMBER: Non-Regulated material

PACKAGE CLASS: 50

D.O.T. HAZARD CLASS: NA

D.O.T. PROPER SHIPPING NAME: Not regulated

PACKING GROUP: NA

PRODUCT RQ (LBS): None

Not classified as hazardous or dangerous in the meaning of transport regulations.



## 15. REGULATORY INFORMATION - FEDERAL REGULATORY STATUS

OSHA Classification: Product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. As a respirable dust only.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) Reportable Quantity (RQ): None

The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity: None

Carcinogenicity: by IARC?: Yes ( ) No ( X ) by NTP?: Yes ( ) No ( X )

SARA Title III (Superfund Amendments and Reauthorization Act of 1986): NONE  
Section 302 (Extremely Hazardous Substances): NONE

The following component(s) of this product is/are subject to the emergency planning provisions of 40 CFR 355 when there are amounts equal to or greater than the Threshold Planning Quantity (TPQ): None

Section 313 (Toxic Chemicals):

The following component(s) have been specified as Toxic Chemicals under SARA Section 313 and may be subject to the Toxic Release Inventory (TRI) reporting requirements under 40 CFR372: None

Poison Schedule: None allocated.

### The following components are listed in U.S. State Regulations:

<u>State Reg Reference:</u>	<u>Component(s)</u>
NONE	

### Canada

**Canadian Hazardous Products Act:**  
NONE

### **Canadian Environmental Protection Act:**

All the ingredients of this mixture are notified to CEPA and on the DSL (Domestic Substances List).

### European Union (EU)

**European Inventory of Existing Commercial Chemical Substances:**  
All components of this product are included in EINECS/ELINCS.

### **Council of European Communities Directive on Classification, Packaging and Labeling of Dangerous Substances/Preparation (67/548/EEC & 88/379/EEC):**

No Dangerous Goods Label Required.

Labeling acc. to Annex I of Directive 67/548/EEC: Hazard symbol: Xn (harmful) UN-Number: N/A

R-phrases 36/37 – irritating to eyes and respiratory system	S-phrases 7 - keep container tightly closed 22 – do not breathe dust 26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36 – wear suitable protective clothing
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This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

## 16. OTHER INFORMATION

Prepared By.....: Donato Polignone	Part Number.....:
Created By.....: MSDS Authoring Services	Title.....: MSDS Coordinator
Approval Date.....: February 9, 2009	Supersedes Date...: January 18, 2009

### ADDITIONAL INFORMATION:

The data in this Material Safety Data Sheet relates only to the specific material designated herein. It does not relate to use in combination with any other material or in any process. This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004)

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Purity Systems, Inc. The data on this sheet are related only to the specific material designated herein. Purity Systems, Inc. assumes no legal responsibility for use or reliance upon these data.

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