

**WP-2 MATERIAL SAFETY DATA SHEET**

Last Updated July 20, 2009

**SECTION 1 IDENTIFICATION of the MATERIAL AND SUPPLIER****Product Name:** WP-2**Product Number:** --**Australian Importer/Supplier**

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**Overseas Supplier**

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**Recommended Use:** Product is used as ion exchange resin.**SECTION 2 HAZARDS IDENTIFICATION****HAZARDOUS SUBSTANCE. NOT DANGEROUS GOODS**

Classified as hazardous according to the criteria of Safe Work Australia (2004), with the following Risk and Safety phrases:

**Risk Phrases:**

R36/37	Irritating to eyes and respiratory system
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**Safety Phrases:**

S22	Do not breath dust
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36	Wear suitable protective clothing
S45	In case of accident or if you feel unwell, seek medical advice immediately

**POTENTIAL HEALTH EFFECTS**

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**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.

<b>SECTION 3</b>	<b>COMPOSITION/INFORMATION on INGREDIENTS</b>
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<b>Chemical entity</b>	<b>CAS Number</b>	<b>Proportion (%)</b>
SILICA POLYAMINOACID COMPOSITE	Proprietary	>90%
Water	7732-18-5	0-10%

<b>SECTION 4</b>	<b>FIRST AID MEASURES</b>
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**EYES:** In case of contact with eyes, rinse immediately with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.

**SKIN:** In case of contact with skin, rinse with plenty of water. If irritation persists, seek medical attention.

**INHALATION:** Remove to fresh air, keep warm and rested. Seek medical attention immediately. If breathing stops apply artificial respiration.

**INGESTION:** If swallowed, seek medical attention immediately. Give water or milk to drink. DO NOT induce vomiting or attempt to give anything by mouth to an unconscious person.

**Aggravation of Pre-existing Conditions and Diseases:**

Workers of with pre-existing respiratory conditions should avoid inhalation of dust.

<b>SECTION 5</b>	<b>FIREFIGHTING MEASURES</b>
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**Fire:**

<i>Flash point:</i>	No data
<i>Autoignition temperature:</i>	No data
<i>Flammable limits in air % by volume:</i>	No data

**Decomposition products under fire conditions**

On combustion may emit carbon dioxide/monoxide and oxides of nitrogen.

**Fire extinguishing media:**

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Use water (fine spray or fog), carbon dioxide or foam. Do not use direct water jet.

**Precautions and special protective equipment for firefighters**

As a finely divided powder, may form potentially explosive dust mixture in air, if subjected to an ignition source. A self-contained breathing apparatus (SCBA) and chemical resistant clothing is recommended for indoor and outdoor fires. Do not allow fire-water to enter drains or natural waterways.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Emergency procedures**

Evacuate area, contain and clean up spill immediately. Small spills should be scooped up and placed in containers. For larger spills clean up spills 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. Cleaned area should be washed with water.

Wear protective clothing and boots (non-sparking), gloves and goggles/safety glasses. For large spills use an approved respirator with dust/particulate cartridge.

**SECTION 7 HANDLING and STORAGE****Precautions for safe handling**

Wear appropriate personal protective equipment (see section 8).

Do not get in eyes, on skin, on clothing.

Do not swallow.

Avoid inhalation of product dust.

Do not eat or drink while working.

Wash thoroughly after handling (with soap and water).

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.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Limits**

Occupational Exposure Limits have not been established for this product.

All atmospheric contamination should be kept to as low a level as is practically possible.

Standard Name	Synonyms	Cas No	TWA (ppm)	TWA (mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Carcinogen Category	Notices	Ref	Notes
Silica gel (a)		112926-00-8	-	10	-	-	-	-	H	

Source: <http://hsis.ascc.gov.au/SearchES.aspx>**Biological limit values**

BLVs have not been developed for this product.

**Engineering Controls**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

**Personal Protective Equipment***Eye protection:* Use close fitting safety goggles and/or glasses conforming to AS 1336 and AS/NZS 1337.*Skin protection:* Use gauntlet gloves (PVC or neoprene) and protective clothing conforming to AS 2161.2 and to AS 2919.*Respiratory protection:* Where dusts may be generated (eg spill) and the respirable particulate exposure limit is exceeded, wear an approved dust mask or use a half face-piece respirator (with goggles) or full face-piece respirator (without goggles) fitted with a dust/particulate cartridge, conforming to AS/NZS 1715 and 1716.*Footwear:* Non-sparking boots should be worn when dust is generated (eg spill).**SECTION 9 PHYSICAL and CHEMICAL PROPERTIES**

Appearance:	white to off-white crystalline/granular powder
Molecular weight:	>25,000
Boiling point:	Not determined
Melting point:	>200°C
Vapour pressure:	Not determined
Vapour density: (air = 1)	Not determined
Specific gravity:	Not determined
Solubility in water:	Insoluble

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**SECTION 10 STABILITY and REACTIVITY****Stability:**

Stable at normal temperature and pressure. Store in a cool (<25°C), well ventilated place away from incompatible materials (see below).

**Conditions to avoid:**

Do not handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.

**Incompatibility:**

Incompatible materials include gaseous or aqueous HF; oxidizing materials and highly oxygenated solvents.

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition:** Hazardous thermal decomposition products include carbon dioxide/monoxide, and oxides of nitrogen.

**SECTION 11 TOXICOLOGICAL INFORMATION**Acute toxicity:

LC50/inhalation/rat = No data available.

Chronic toxicity:Classification of Ingredients

EC Carcinogenic: Not listed.

EC Mutagenic: Not listed.

EC Toxic for Reproduction: 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.

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RTECS #: No data available

**SECTION 12 ECOLOGICAL INFORMATION****Ecotoxicity**

No data. Polyamines are known to be toxic to aquatic organisms.

**Persistence/degradability**

No data.

**Mobility**

No data.

**Environmental fate**

No data.

**Bioaccumulation potential**

No data.

**SECTION 13 DISPOSAL CONSIDERATIONS****Disposal Methods**

Waste disposal must be in accordance with appropriate State/Territory Waste Management regulations.

**Special Precautions**

Wash contaminated clothing before reuse.

**SECTION 14 TRANSPORT INFORMATION****Australian Dangerous Goods Code:** Not regulated**DOT:** Not regulated**ICAO/IATA:** Not regulated**IMO/IMDG:** Not regulated**SECTION 15 REGULATORY INFORMATION****Classification:** This material is hazardous according to the criteria of Safe Work Australia (2004)**Poison Schedule:** Not Scheduled**Australian Inventory of Chemical Substances:** Not listed.

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**SECTION 16 OTHER INFORMATION**

Date of preparation.	20 July 2009
Date of revision:	20 July 2009
Reason for issue:	New Australian MSDS

This MSDS summarises our best knowledge, at the date of issue, of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Since Purity Systems Inc. cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Purity Systems Inc.