

**TEAM**® Industrial Services  
**SAFETY DATA SHEET**

### 1. Identification

**Product identifier** S-600 Nuclear PRP SEALANT

**Other means of identification**

**Product code** 905-0023

**Recommended use** Industrial Leak Sealant.

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company name** Team Industrial Services, Inc.

**Address** 200 Hermann Drive, Alvin, Texas 77511

**Telephone** Not available.

**E-mail** Not available.

**Emergency phone number** CHEMTREC - 24 HOURS: 800-424-9300 (USA)  
International: +1 703-527-3887 (Collect)

### 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Hazardous to the aquatic environment, Category 3  
long-term hazard

**OSHA defined hazards** Not classified.

**Label elements**

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** Harmful to aquatic life with long lasting effects.

**Precautionary statement**

**Prevention** Avoid release to the environment.

**Response** Wash thoroughly after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)** None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Distillates (petroleum), hydrotreated middle	64742-46-7	5-10
Ethyltriacetoxysilane	17689-77-9	1-5
Methyltriacetoxysilane	4253-34-3	1-5
Aluminum	7429-90-5	<= 1.6

**Composition comments** All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.

## 4. First-aid measures

<b>Inhalation</b>	If symptoms are experienced, remove source of contamination or move victim to fresh air. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Get medical attention if symptoms occur after washing.
<b>Eye contact</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth thoroughly. Get medical attention if any discomfort occurs.
<b>Most important symptoms/effects, acute and delayed</b>	Irritant effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	First aid personnel must be aware of own risk during rescue.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Larger fires: Dry chemical, foam, water fog. Small fires: Dry chemical, CO <sub>2</sub> , or water spray.
<b>Unsuitable extinguishing media</b>	None.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
<b>Fire fighting equipment/instructions</b>	Use water spray to cool unopened containers. Move containers from fire area if you can do it without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	This product is not flammable.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate protective equipment and clothing during clean-up. In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Scrape up spillage or absorb with absorbing material. After removal flush contaminated area thoroughly with water.  Never return spills to original containers for re-use.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Provide adequate ventilation. Product in contact with water evolves acetic acid. Avoid inhalation of vapors and contact with skin and eyes. Wear protective gloves and appropriate clothing to prevent skin contact. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep containers tightly closed. Keep away from moisture. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	PEL	25 mg/m <sup>3</sup> 10 ppm	
Aluminum (CAS 7429-90-5)	PEL	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable dust. Total dust.
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	PEL	5 mg/m <sup>3</sup>	Mist.

## US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	STEL	15 ppm	
	TWA	10 ppm	
Aluminum (CAS 7429-90-5)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Acetic acid (CAS 64-19-7)	STEL	37 mg/m <sup>3</sup>	
		15 ppm	
	TWA	25 mg/m <sup>3</sup>	
		10 ppm	
Aluminum (CAS 7429-90-5)	TWA	5 mg/m <sup>3</sup>	Respirable.
		5 mg/m <sup>3</sup>	Welding fume or pyrophoric powder.
		10 mg/m <sup>3</sup>	Total
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	No exposure standards allocated.
<b>Appropriate engineering controls</b>	Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves.
<b>Other</b>	Wear appropriate clothing to prevent possibility of skin contact.
<b>Respiratory protection</b>	Respiratory protection is not needed ambient conditions if vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29CFR 1910.134) and use IOSH/MSHA approve respirators.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Black paste.
<b>Physical state</b>	Liquid.
<b>Form</b>	Paste.
<b>Color</b>	Black.
<b>Odor</b>	Acetic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 212.0 °F (> 100.0 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

**Upper/lower flammability or explosive limits**

<b>Flammability limit - lower (%)</b>	Not applicable.
<b>Flammability limit - upper (%)</b>	Not applicable.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.

<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.007 @ 25 °C

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** No data available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not applicable.

**10. Stability and reactivity**

**Reactivity** The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** During curing, the product will release: Acetic acid.

**Conditions to avoid** Water, moisture.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Carbon oxides. Silicon oxides. Metal oxides. This material may generate formaldehyde at temperatures greater than 150°C (300°F).

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Skin contact</b>	May cause mild skin irritation.
<b>Eye contact</b>	May cause eye irritation on direct contact.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Irritant effects.

**Information on toxicological effects**

**Acute toxicity** Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Aluminum (CAS 7429-90-5)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 0.888 mg/l, 4 hours
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 hours
<i>Inhalation</i>		
LC50	Rat	7640 mg/m <sup>3</sup> , 4 hours 1.72 mg/l, 4 hours

**Skin corrosion/irritation** May cause mild skin irritation.

<b>Serious eye damage/eye irritation</b>	May cause eye irritation on direct contact.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	No data available.
<b>Skin sensitization</b>	Not a skin sensitizer.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	Inhalation of carbon black dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	1 Carcinogenic to humans.
Silicon dioxide (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.

#### NTP Report on Carcinogens

Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)	Known To Be Human Carcinogen.
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#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity - single exposure</b>	No data available.
<b>Specific target organ toxicity - repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	Not classified.
<b>Further information</b>	Acetic acid is liberated slowly upon contact with moisture.

## 12. Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	Expected to be slightly to moderately mobile in soil.
<b>Mobility in general</b>	The product is insoluble in water. The product hardens to a solid immobile substance.
<b>Other adverse effects</b>	Not available.

## 13. Disposal considerations

<b>Disposal instructions</b>	Dispose of this material and its container to hazardous or special waste collection point. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
<b>Hazardous waste code</b>	Not regulated.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**General information** Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

**US federal regulations** Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Aluminum	7429-90-5	<= 1.6

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Aluminum (CAS 7429-90-5)  
Carbon black (CAS 1333-86-4)  
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)  
Silicon dioxide (CAS 7631-86-9)

**US. New Jersey Worker and Community Right-to-Know Act**

Aluminum (CAS 7429-90-5)  
Carbon black (CAS 1333-86-4)  
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)  
Silicon dioxide (CAS 7631-86-9)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Aluminum (CAS 7429-90-5)  
Carbon black (CAS 1333-86-4)  
Distillates (petroleum), hydrotreated middle (CAS 64742-46-7)  
Silicon dioxide (CAS 7631-86-9)

**US. Rhode Island RTK**

Aluminum (CAS 7429-90-5)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Carbon black (CAS 1333-86-4)

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	15-April-2015
<b>Revision date</b>	-
<b>Version #</b>	01
<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA. I - Safety Glasses, Gloves, Dust, Vapor Respirator
<b>HMIS® ratings</b>	Health: 0 Flammability: 0 Physical hazard: 0 Personal protection: I

### NFPA ratings



### List of abbreviations

<b>References</b>	ACGIH EPA: Acquire database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
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<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
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