

**SAFETY DATA SHEET**

**1. Identification**

**Product identifier** Sealant 4

**Other means of identification**

**Product code** 800-0062

**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** Reproductive toxicity Category 1B

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Danger

**Hazard statement** May damage fertility or the unborn child.

**Precautionary statement**

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

**Storage** Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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

**3. Composition/information on ingredients**

**Mixtures**

Chemical name	CAS number	%
Aluminum Silicate	1332-58-7	>1
Carbon fiber	7440-44-0	>1
Refractories, Fibers, Aluminosilicate	142844-00-6	>1
Tetraborate pentahydrate	12179-04-3	0.3 - <4.5

## Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Note R: The classification as a carcinogen does not apply according to Directive 67/548/EEC as it can be shown that fibers have a length weighted geometric mean diameter less two standard geometric errors greater than 6 micrometers.

## 4. First-aid measures

### Inhalation

Remove victim to fresh air. Get medical attention if symptoms persist.

### Skin contact

Wash area with soap and water. Get medical attention if irritation develops or persists.

### Eye contact

Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

### Ingestion

Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

### Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

### Indication of immediate medical attention and special treatment needed

Treat symptomatically.

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

### Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

### Unsuitable extinguishing media

No restrictions known.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

### Special protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

### General fire hazards

The product is not flammable.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Avoid prolonged and repeated contact. See Section 8 of the SDS for Personal Protective Equipment.

### Methods and materials for containment and cleaning up

Collect and dispose of spillage as indicated in section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of dust. Avoid prolonged and repeated contact. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place. Keep away from open flames.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### U.S. - OSHA

Components	Type	Value
Carbon fiber (CAS 7440-44-0)	TWA	15 mppcf

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

Components	Type	Value	Form
Aluminum Silicate (CAS 1332-58-7)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.

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

Components	Type	Value	Form
		15 mg/m <sup>3</sup>	Total dust.

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Carbon fiber (CAS 7440-44-0)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminum Silicate (CAS 1332-58-7)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Carbon fiber (CAS 7440-44-0)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
Tetraborate pentahydrate (CAS 12179-04-3)	STEL	6 mg/m <sup>3</sup>	Inhalable fraction.
	TWA	2 mg/m <sup>3</sup>	Inhalable fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value	Form
Aluminum Silicate (CAS 1332-58-7)	TWA	5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Total
Carbon fiber (CAS 7440-44-0)	TWA	2.5 mg/m <sup>3</sup>	Respirable.
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)	TWA	3 fibers/cm <sup>3</sup>	Fiber.
		3 fibers/cm <sup>3</sup>	Dust.
		5 mg/m <sup>3</sup>	fibers, total dust
		5 mg/m <sup>3</sup>	Fiber, total
Tetraborate pentahydrate (CAS 12179-04-3)	TWA	1 mg/m <sup>3</sup>	

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Risk of contact: Wear approved safety glasses or goggles.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves.
<b>Other</b>	In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
<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>	Brownish thick fibrous paste.
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<b>Physical state</b>	Solid.
<b>Form</b>	Paste.
<b>Color</b>	Brownish.
<b>Odor</b>	Mild odor.
<b>Odor threshold</b>	Not available.
<b>pH</b>	11.5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 400.0 °F (> 204.4 °C) Cleveland Open Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<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>	1.3 (uncured) (H <sub>2</sub> O =1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Auto-ignition temperature</b>	1050 °F (565.56 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur. Hazardous reactions do not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Oxidizers. Acids.
<b>Hazardous decomposition products</b>	Thermal decomposition may lead to release of irritating gases and vapors.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Dust may irritate respiratory system. However due to the physical form of the product inhalation of dust is not relevant.
<b>Skin contact</b>	Prolonged skin contact may cause irritation.
<b>Eye contact</b>	May cause eye irritation on direct contact.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** May cause discomfort if swallowed.

Components	Species	Test Results
Carbon fiber (CAS 7440-44-0)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 2000 mg/m3, 4 hours
<b>Skin corrosion/irritation</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	Not available.	
<b>Germ cell mutagenicity</b>	Not available.	
<b>Carcinogenicity</b>	The carcinogenic effect is caused by inhalation of dust particles. Due to the form of the product, exposure to the potentially carcinogenic components is not expected.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	Refractories, Fibers, Aluminosilicate (CAS 142844-00-6) 2B Possibly carcinogenic to humans.	
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.	
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.	
<b>Specific target organ toxicity - single exposure</b>	Not available.	
<b>Specific target organ toxicity - repeated exposure</b>	Not available.	
<b>Aspiration hazard</b>	Not available.	
<b>Chronic effects</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.	

## 12. Ecological information

<b>Ecotoxicity</b>	The product is not expected to be hazardous to the environment.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	Expected to have low mobility in soil.
<b>Mobility in general</b>	No data available.
<b>Other adverse effects</b>	Not available.

## 13. Disposal considerations

<b>Disposal instructions</b>	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. Recover and reclaim or recycle, if practical.
<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>	Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.

## 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

## 15. Regulatory information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

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

Refractories, Fibers, Aluminosilicate (CAS 142844-00-6) 0.1 % One-Time Export Notification only.

### 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 - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

### SARA 313 (TRI reporting)

Not regulated.

### 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** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### US. Massachusetts RTK - Substance List

Aluminum Silicate (CAS 1332-58-7)  
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)  
Tetraborate pentahydrate (CAS 12179-04-3)

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

Aluminum Silicate (CAS 1332-58-7)  
Carbon fiber (CAS 7440-44-0)  
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)  
Tetraborate pentahydrate (CAS 12179-04-3)

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

Aluminum Silicate (CAS 1332-58-7)  
Refractories, Fibers, Aluminosilicate (CAS 142844-00-6)  
Tetraborate pentahydrate (CAS 12179-04-3)

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

Not Listed.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

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

\*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: 1* Flammability: 0 Physical hazard: 0 Personal protection: I

### NFPA ratings



### List of abbreviations

<b>References</b>	ACGIH EPA: AQUIRE 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 ESIS (European chemical Substances Information System)
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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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