

## 1. Product and Company Identification

**Material name** CooperKnit 500  
**Version #** 00  
**Issue date** 02-14-2013  
**Revision date** 02-14-2013  
**Supersedes date** -  
**CAS #** Mixture  
**Product code** N/A  
**Product use** Industrial use.  
**Manufacturer information**  
**Manufacturer/Supplier** Team Industrial Services, Inc.  
 200 Hermann Drive, Alvin, Texas 77511  
**Emergency Contact** CHEMTREC - 24 HOURS  
 USA: CHEMTREC: 800-424-9300  
 International: 703-527-3887 (Collect)

## 2. Hazards Identification

**Physical state** Solid.  
**Appearance** White, odorless, non-respirable, continuous filament material.  
**Emergency overview** Dust may irritate the respiratory tract, skin and eyes.  
**OSHA regulatory status** This product is not hazardous according to OSHA 29CFR 1910.1200.  
**Potential health effects**  
**Routes of exposure** Eye contact. Skin contact.  
**Eyes** Direct contact with eyes may cause temporary irritation.  
**Skin** Prolonged or repeated skin contact may cause irritation.  
**Inhalation** Dust may cause irritation.  
**Ingestion** No harmful effects expected in amounts likely to be ingested by accident.  
**Chronic effects** Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
**Signs and symptoms** Direct contact with eyes may cause temporary irritation.  
**Potential environmental effects** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Amorphous silica	61790-53-2	>= 96 %

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.  
 The product contains trace amounts of aluminum, titanium, and iron.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.  
**Skin contact** Wash area with soap and water. Get medical attention if irritation develops or persists.  
**Inhalation** Remove victim to fresh air. Get medical attention if symptoms persist.  
**Ingestion** Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

**Notes to physician** Treat symptomatically.

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

## 5. Fire Fighting Measures

**Flammable properties** No unusual fire or explosion hazards noted.

### Extinguishing media

**Suitable extinguishing media** Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** No restrictions known.

### Protection of firefighters

**Specific hazards arising from the chemical** During fire, gases hazardous to health may be formed.

**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.

**Hazardous combustion products** None known.

## 6. Accidental Release Measures

**Personal precautions** Avoid inhalation of dust. Avoid prolonged and repeated contact. Avoid generation and spreading of dust. See Section 8 of the MSDS for Personal Protective Equipment.

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

**Methods for containment** Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up** Collect and dispose of spillage as indicated in Section 13 of the MSDS.

**Other information** Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

**Handling** Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged and repeated contact. Avoid inhalation of dust. Avoid dust formation. Observe good industrial hygiene practices.

**Storage** Store in closed original container in a dry place.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

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

Components	Type	Value
Amorphous silica (CAS 61790-53-2)	TWA	0.8 mg/m <sup>3</sup>
		20 millions of particle

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Amorphous silica (CAS 61790-53-2)	TWA	4 mg/m <sup>3</sup>	Total
		1.5 mg/m <sup>3</sup>	Respirable.

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Amorphous silica (CAS 61790-53-2)	TWA	3 ppm	Respirable particles.
		10 ppm	Inhalable particulate.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value	Form
Amorphous silica (CAS 61790-53-2)	TWA	6 mg/m3	Total dust.

**Mexico. Occupational Exposure Limit Values**

Components	Type	Value	Form
Amorphous silica (CAS 61790-53-2)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable particulate.

**Engineering controls** Ventilate as needed to control airborne dust. Use explosion-proof ventilation equipment if airborne dust levels are high. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**Personal protective equipment**

**Eye / face protection** Risk of contact: Wear approved safety glasses or goggles.

**Skin protection** Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Respiratory protection** 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.

**General hygiene considerations** 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 & Chemical Properties**

<b>Appearance</b>	White, odorless, non-respirable, continuous filament material.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Color</b>	White.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	3000 °F (1648.9 °C)
<b>Solubility (water)</b>	Insoluble in water.
<b>Specific gravity</b>	2.2
<b>Flash point</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	No data available.

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Hydrochloric acids. Strong bases.
<b>Hazardous decomposition products</b>	Upon heating above 2000°F (1140°C) for sustained periods, this amorphous material begins to transform to mixtures of crystalline phases.

**Possibility of hazardous reactions** Will not occur.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
Amorphous silica (CAS 61790-53-2)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 22500 mg/kg
<b>Sensitization</b>	Not a skin sensitizer.	
<b>Acute effects</b>	May cause discomfort if swallowed.	
<b>Local effects</b>	May cause eye irritation on direct contact. Prolonged or repeated skin contact may cause irritation.	
<b>Chronic effects</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.	
<b>Carcinogenicity</b>	Not classified.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Amorphous silica (CAS 61790-53-2)	3 Not classifiable as to carcinogenicity to humans.	
<b>Symptoms and target organs</b>	Direct contact with eyes may cause temporary irritation.	

## 12. Ecological Information

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation / Accumulation</b>	No data available.
<b>Partition coefficient</b>	No data available.
<b>Mobility in environmental media</b>	The product is insoluble in water and will sediment in water systems.

## 13. Disposal Considerations

<b>Waste codes</b>	Not regulated.
<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>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 a hazardous material by DOT.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>TDG</b>	Not regulated as dangerous goods.

## 15. Regulatory Information

<b>US federal regulations</b>	OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	
Not regulated.	

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

Not regulated.

### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

### 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

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**  
No

**Section 311/312 (40 CFR 370)**  
No

**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)**  
Not controlled

**Canadian regulations**  
This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS status**  
Non-controlled

### Inventory status

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)	Yes
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)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
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)

**State regulations**  
This product does not contain a chemical known to the State of California to cause cancer.

#### US - California Hazardous Substances (Director's): Listed substance

Amorphous silica (CAS 61790-53-2) Listed.

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

Not listed.

#### US. Massachusetts RTK - Substance List

Amorphous silica (CAS 61790-53-2) Listed.

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

Not regulated.

#### US. Pennsylvania RTK - Hazardous Substances

Amorphous silica (CAS 61790-53-2) Listed.

## 16. Other Information

**Further information**  
B - Safety Glasses, Gloves  
HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
Health: 1  
Flammability: 0  
Physical hazard: 0  
Personal protection: B

**NFPA ratings**

Health: 1  
Flammability: 0  
Instability: 0

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available.