

# Material Safety Data Sheet Weld Shield<sup>tm</sup> 1890 S-T & 3690 ST

# Siltemp CH Silica

## Section I – Product Information

Trade Name	Siltemp Fabric, CH		
Synonyms	Siltemp 36CH	Siltemp 60CH	Siltemp 84CH
	Siltemp 84CH	Siltemp 100CH	Siltemp 110CH
	Siltemp 136CH	Siltemp 150CH	Siltemp 188CH
Part Number	88-CH; 150-CH; 188	-СН.	

### Section II – Composition and Information on Ingredients

Ingredient(s)	CAS Number	Approx. Percent
Amorphous Silica	CAS# 7631-86-9	96%
Hydrocarbon Coating	None Assigned	* 0.3% - 0.5%

\*% of actual coating as a percentage of the base silica material.

### Section III – Hazard Identification

<b>Emergency Overview</b>	Off white or tan colored flexible woven fabric with no odor.
Effects of Overexposure	
Eye Contact	Slight irritation may be caused in contact with eyes.
Skin Contact	Temporary irritation may be caused in contact with eyes.
Inhalation	Inhalation of airborne fibers may cause irritation to mouth, nose, and throat.
Ingestion	May cause temporary irritation of the digestive tract, but not an expected rout of entry in industrial uses.
Chronic Hazards	There is no known chronic health effects associated with the use of this product under normal working conditions.
<b>Primary Routes of Entry</b>	Skin contact, inhalation, ingestion & eye contact.
Carcinogenicity	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Section	IV –	First Ai	d Information
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Eye Contact	Flush Eyes immediately with large amounts of water for at least 15 minutes
	holding eyelids open while flushing. Seek medical attention.
Skin Contact	Wash contaminated skin thoroughly with mild soap and cool water. Seek medical
	attention if irritation persists.
Inhalation	Remove person from source of exposure and then seek medical attention
	immediately.
Ingestion	Seek medical attention immediately

## **Section V – Fire Fighting Measures**

N/A
N/A
N/A
N.D.
Carbon dioxide, water foam, or dry chemical as suitable for type of surrounding fire.
Wear full fire fighting protective equipment including self- contained breathing apparatus.

### Section VI – Accidental Release Measures

### Steps to be taken in Case Material is Released or Spilled

Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Dispose according to federal, state, and local environmental regulations.

### Section VII – Handling and Storage

Store material in a clean, dry place and keep container closed.

Particular care should be taken when working with "used" material to minimize dust. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.

# Section VIII – Exposure controls and Personal Protection

Engineering Controls	
Ventilation	General ventilation and/or local exhaust ventilation should be utilized to maintain exposures below the TLV.
<b>Respiratory Protection</b>	Use and approved disposable dust respirator designed for nuisance type dusts.
Eye Protection	Safety glasses with side shields or chemical splash goggles must be worn to prevent eye contact. A good safety practice is to have an eyewash station readily available near the work area.
<b>Protective Clothing</b>	Wear rubber gloves when handling this product. Personnel that are more susceptible to irritation from fibers or dusts should wear full-body coveralls.
Hygienic Practices	Use good personal hygiene practices. The use of protective creams before handling the material may prove beneficial
Exposure Limits Amorphous Silica	
(respirable)	PEL (OSHA) 80 mg/m <sup>3</sup> + % SiO <sub>2</sub> or 20 mppcf TLF (ACGIH) 10 mg/m <sup>3</sup> (inhalable); 3mg/m <sup>3</sup> NIOSH 6 mg/m <sup>3</sup> IDLH 3000 mg/m <sup>3</sup>
Hydrocarbon Coating	This product is not considered hazardous as defined by 29 CFR 1910, 1200 (OSHA Hazcom Standard).

# Section IX – Physical and Chemical Properties

# **Physical Data**

Boiling Point	4046°F
Melting Point	>3000°F
Solubility in Water	Insoluble
Vapor Pressure	N.D.
Vapor Density	N.D.
Specific Gravity	2.2
Color	Off-white or tar colored
Odor	None
Physical State	Woven Fabric

Chemical Stability Incompatibilities	Product is stable at normal temperature and storage conditions. Basic phosphates, hydrofluoric acid, and some oxides and hydroxides.
Hazardous Polymerization Hazardous Decomposition	Hazardous polymerization will not occur under normal conditions.
Products (coating only)	Oxidation of the coating procedures carbon monoxide and carbon dioxide.

### **Section XI – Toxicological Information**

Material which has been subjected to elevated temperatures (>1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on the temperature and length of service. The OSHA PEL for cristobalite is .05 mg/m<sup>3</sup> (respirable).

### Section XII – Ecological Information

No information is available, however, toxicity is expected to be low based on the insolubility in water of this product.

#### **Section XIII – Disposal Considerations**

Dispose of waste material in accordance with applicable federal, state, and local environmental regulations.

#### **Section XIV – Transportation Information**

DOT Proper Shipping NameSiltemp Fabric, CHDOT Hazardous ClassNoneDOT UN/NA NumberNoneEmergency Response Guide NumberNone

### **U.S. Federal Regulations**

### SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372: NONE

### TSCA

The chemical substances in this product are on the TSCA Section 8 Inventory.

### **Export Notification**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: NONE

International Regulations	
Canadian WHMIS	This MSDS has been prepared in compliance with controlled
	Product Regulations except for the use of 16 headings.
<b>Canadian WHMIS Class DSL</b>	Not Regulated
	The chemical substances in this product are listed on the Domestic
	Substances List (DSL)

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