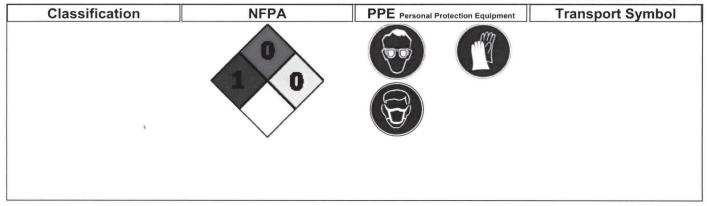


SAFETY DATA SHEET

According to REACH Legislation EC 1907/2006

Glasweve HT (uncoated material / loom state)

Revision Date 2011-04-18



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE **COMPANY/UNDERTAKING**

Product name Commodity code

Synonym Product description Product use

Glasweve HT (uncoated material / loom state)

11008 - GW

OSM 27; OSM 28; OSM 31; OS 600, Glasweave HT

Woven fiberglass fabric.

Fiberglass filter.

Manufacturer or supplier's details

Pyrotek Inc.

9503 E. Montgomery Avenue Spokane Valley, WA 99206 USA

Phone: (509) 926-6212 Fax: (509) 927-2408

Email: MSDS@pyrotek-inc.com

REACH email: REACH@pyrotek-inc.com

Emergency telephone number

Chemtrec North America (800) 424-9300,

Chemtrec Outside North America +1 703 527 3887

2. HAZARDS IDENTIFICATION

Physical state

Solid

Appearance

Weave.

Odor Odorless

Classification

In accordance with Directive EC Symbol(s)

1272/2008 and its amendments, this substance does not need to be classified

nor labelled

R -phrase(s) None

See Section 11 for additional Toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Names	CAS-No	EINECS-No.	Weight %	Classification
Fiberous Glass	65997-17-3	266-046-0	100%	-

For the full text of the R phrases mentioned in this Section, see Section 16

Further information

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust or vapors).

Synthetic vitreous fibers (SVF) are fibrous inorganic substances classified into three general groups: fibrous glass (glasswool and glass filament), mineral wool (rockwool and slagwool), and refractory ceramic fibers (RCF). Devitrification (conversion of fibers to a crystalline state) may occur when SVF materials are exposed to high temperatures producing disordered crystalline silica forms.

Crystalline silica (SiO2) exists in several forms: quartz, cristobalite and tridymite. Fused silica (non-crystalline quartz), if heated to more than 1200°C (2192°F) for an extended period, converts to crystalline silica in the form of tridymite. As heated crystalline silica slowly cools, its form can change. When cooled to approximately 870°C (1598°F), it can take on the form of crystalline quartz. Continued cooling below 573°C (1063°F) can change the form to cristobalite. However, more rapid cooling from a high temperature may solidify any form of crystalline silica at normal temperatures.

Prolonged exposure to respirable crystalline silica may cause delayed (chronic) lung injury known as silicosis. Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death.

The OSHA PEL for crystalline silica as tridymite and cristobalite is one-half of the OSHA PEL for crystalline silica (quartz) -0.1 mg/m^3 .

4. FIRST AID MEASURES

Rinse immediately with plenty of water, also under the eyelids, for at least 15 Eye contact

minutes. If symptoms persist, call a physician.

Wash off with soap and water. If skin irritation persists, call a physician. Skin contact

state)

Ingestion Not a normal route of exposure. Consult a physician if necessary.

Inhalation Move to fresh air. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties None known

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the

surrounding fire

Unsuitable extinguishing media None known

Specific hazards arising from the None known

chemical

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear

Australian Hazchem Code None known

NFPA Health 1 Flammability -Instability -

HMIS Health 1 Flammability -

Instability -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid dust formation.

Environmental precautions Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up Vacuum or wet sweep. Avoid dust formation. Shovel into suitable container for

disposal.

7. HANDLING AND STORAGE

Handling Avoid dust formation.

Storage Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Chemical Names	ACGIH TLV	OSHA PEL	Argentina	Australia	Austria
Fiberous Glass	TWA: 1 fiber/cm3	Ceiling: 5 mg/m ³	TWA: 0.05 mg/m ³	10 mg/m ³ STEL	STEL: 0.3 mg/m ³
		Listed	TWA: 1 fiber/cm3	5 mg/m ³ TWA	STEL: 0.4 mg/m ³
			TWA: 5 mg/m ³	1 mg/m ³ TWA	STEL: 0.5 mg/m ³
				0.5 mg/m ³ TWA	STEL: 1 mg/m ³
				0.5 fibres/mL TWA	STEL: 1.5 mg/m ³
				0.1 mg/m ³ TWA	STEL: 2 mg/m ³
				0.01 mg/m ³ TWA	STEL: 4 mg/m ³
					MAK: 0.1 mg/m ³
					MAK: 0.25 mg/m ³
					MAK: 0.5 mg/m ³
					MAK: 1 mg/m ³
					MAK: 5 mg/m ³

Chemical Names	Belgium	Brazil	Bulgaria	Chile	China
Fiberous Glass	Not Listed	TWA: 1 mg/m ³ TWA: 5 mg/m ³	TWA: 10.0 mg/m³ TWA: 1.0 mg/m³ TWA: 0.5 mg/m³ TWA: 0.3 mg/m³ TWA: 0.2 mg/m³ TWA: 0.1 mg/m³ TWA: 0.05 mg/m³ STEL: 3.0 mg/m³	TWA: 0.08 mg/m³ TWA: 0.12 mg/m³ TWA: 0.16 mg/m³ TWA: 0.16 mg/m³ TWA: 1 fiber/cm3 TWA: 4 mg/m³	STEL: 0.02 mg/m³ STEL: 0.3 mg/m³ STEL: 0.45 mg/m³ STEL: 1.5 mg/m³ STEL: 1.5 mg/m³ STEL: 10 mg/m³ TWA: 0.01 mg/m³ TWA: 0.15 mg/m³ TWA: 0.5 mg/m³
					TWA: 5 mg/m ³

Chemical Names	Croatia	Czech Republic	Denmark	Egypt	Estonia
Fiberous Glass	STEL: 10 mg/m ³ STEL: 0.6 mg/m ³ Listed	Potential for cutaneous absorption	TWA: 0.005 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.5 mg/m ³ TWA: 1 fiber/cm3 TWA: 5 mg/m ³	TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.002 mg/m ³ STEL: 10 mg/m ³	TWA: 1 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.01 mg/m ³

Chemical Names	EU	Finland	France	Germany	Greece
Fiberous Glass	Not Listed	Not Listed	VME: 1 fibre/cm3	250000 F/m ³	TWA: 5 mg/m ³
				ausgenommen Asbest	TWA: 1 mg/m ³
					TWA: 0.5 mg/m ³
					TWA: 0.25 mg/m ³
					TWA: 0.2 mg/m ³
					TWA: 0.15 mg/m ³
					TWA: 0.1 mg/m ³
					TWA: 0.025 mg/m ³
					STEL: 10 mg/m ³
					STEL: 0.6 mg/m ³
					STEL: 0.1 mg/m ³

Chemical Names	Hungary	Iceland	India	Indonesia	Ireland
Fiberous Glass	TWA: 5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.15 mg/m³ TWA: 0.15 mg/m³ TWA: 0.05 mg/m³ STEL: 4 mg/m³ STEL: 20 mg/m³ STEL: 2 mg/m³ STEL: 0.6 mg/m³ STEL: 0.4 mg/m³ STEL: 0.5 mg/m³ Ceiling: 0.015 mg/m³	TWA: 5 mg/m³ TWA: 0.03 mg/m³ TWA: 0.05 mg/m³ TWA: 0.15 mg/m³ TWA: 0.1 mg/m³ TWA: 0.15 mg/m³ TWA: 0.5 mg/m³ TWA: 1.0 mg/m³ TWA: 2.5 mg/m³ TWA: 2.5 mg/m³ Ceiling: 5 mg/m³ Ceiling: 0.06 mg/m³ Ceiling: 0.1 mg/m³ Ceiling: 0.2 mg/m³ Ceiling: 0.1 mg/m³ Ceiling: 0.1 mg/m³ Ceiling: 0.2 mg/m³ Ceiling: 10 mg/m³ Ceiling: 10 mg/m³ Ceiling: 10 gmg/m³ Ceiling: 10 mg/m³ Ceiling: 2 fibers/cm3 Ceiling: 2 fibers/cm3 Ceiling: 2 mg/m³ Ceiling: 2 mg/m³	5 mg/m³ Ceiling 10 mg/m³ STEL 5 mg/m³ TWA 0.2 mg/m³ TWA 0.15 mg/m³ TWA	NAB: 0.002 mg/m ³ NAB: 0.005 mg/m ³ NAB: 0.01 mg/m ³ NAB: 0.1 mg/m ³ NAB: 0.2 mg/m ³ NAB: 0.5 mg/m ³ NAB: 10 mg/m ³ NAB: 5 mg/m ³	TWA: 5 mg/m³ TWA: 2 fibres/ml

Chemical Names	Israel	Italy	Japan	Korea	Lithuania
Fiberous Glass	TWA: 0.002 mg/m ³ TWA: 0.01 mg/m ³ TWA: 0.1 mg/m ³	Not Listed	TWA: 0.01 mg/m ³ TWA: 0.05 mg/m ³ TWA: 0.1 mg/m ³	0.03 mg/m ³ 0.05 mg/m ³ 0.1 mg/m ³	IPRV: 1 mg/m ³ IPRV: 0.5 mg/m ³ IPRV: 0.15 mg/m ³
	TWA: 0.2 mg/m³ TWA: 0.5 mg/m³ TWA: 1 fiber/m³ TWA: 5 mg/m³		TWA: 0.3 mg/m³ TWA: 1 fiber/cm3	0.2 mg/m ³ 0.5 mg/m ³ 1 mg/m ³ 10 mg/m ³ 5 mg/m ³	IPRV: 0.1 mg/m ³ IPRV: 0.07 mg/m ³ IPRV: 0.05 mg/m ³ IPRV: 0.01 mg/m ³

Chemical Names	Luxembourg	Malaysia	Malta	Mexico	Netherlands
Fiberous Glass	TWA: 0.15 mg/m ³	TWA: 0.002 mg/m ³	TWA: 0.15 mg/m ³	STEL: 10 mg/m ³	TWA: 0.5 mg/m ³
	TWA: 0.5 mg/m ³	TWA: 0.01 mg/m ³	_	TWA: 5 mg/m ³	-
		TWA: 0.05 mg/m ³		TWA: 0.5 mg/m ³	
		TWA: 0.1 mg/m ³		TWA: 0.2 mg/m ³	
		TWA: 0.2 mg/m ³		TWA: 0.15 mg/m ³	
		TWA: 0.5 mg/m ³		TWA: 0.1 mg/m ³	
1		TWA: 1 fibres/mL		TWA: 0.01 mg/m ³	
		TWA: 5 mg/m ³		TWA: 0.002 mg/m ³	

Chemical Names	New Zealand	Norway	Philippines	Poland	Portugal
Fiberous Glass	10 mg/m³ STEL 5 mg/m³ TWA 1 mg/m³ TWA 0.5 mg/m³ TWA 0.1 mg/m³ TWA 0.01 mg/m³ TWA 0.002 mg/m³ TWA	5 mg/m³	TWA: 0.15 mg/m ³ TWA: 0.2 mg/m ³ TWA: 0.5 mg/m ³ TWA: 5 mg/m ³	Not Listed	TWA: 0.05 mg/m ² TWA: 1 fiber/cm ³ TWA: 5 mg/m ³

Chemical Names	Romania	Russia	Singapore	Slovak Republic	Slovenia
Fiberous Glass	TWA: 5 mg/m³ TWA: 1 fiber/cm3 TWA: 0.10 mg/m³ TWA: 0.05 mg/m³ STEL: 10 mg/m³ STEL: 0.50 mg/m³ STEL: 0.20 mg/m³ STEL: 0.10 mg/m³	0.05 mg/m ³ STEL 4 mg/m ³ TWA 0.05 mg/m ³ TWA 0.01 mg/m ³ TWA	PEL: 5 mg/m ³ PEL: 10 mg/m ³ PEL: 1 mg/m ³ PEL: 0.5 mg/m ³ PEL: 0.2 mg/m ³ PEL: 0.15 mg/m ³ PEL: 0.11 mg/m ³ PEL: 0.10 mg/m ³ STEL: 10 mg/m ³	TWA: 0.05 mg/m³ TWA: 0.1 mg/m³ TWA: 0.15 mg/m³ TWA: 0.5 mg/m³ TWA: 2 fibers/cm3 TWA: 4 mg/m³ Ceiling: 0.2 mg/m³ Ceiling: 1.0 mg/m³	TWA: 1 mg/m³ TWA: 0.03 mg/m³ TWA: 0.05 mg/m³ TWA: 0.1 mg/m³ TWA: 0.25 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ TWA: 500000 fibers/cm3 STEL: 4 mg/m³ STEL: 0.06 mg/m³ STEL: 0.12 mg/m³ STEL: 0.2 mg/m³ STEL: 0.2 mg/m³ STEL: 1 mg/m³ STEL: 1 mg/m³ STEL: 1 mg/m³ STEL: 1 mg/m³

Chemical Names	South Africa	Spain	Sweden	Switzerland	Taiwan
Fiberous Glass	0.15 mg/m ³ TWA	VLA-ED: 1 fiber/cc	LTV: 1 fiber/cm3	Not Listed	TWA: 0.05 mg/m ³
	except Tetra-ethyl lead	Fibers with a random			TWA: 0.1 mg/m ³
	0.1 mg/m ³ TWA except	orientation, with a			TWA: 0.2 mg/m ³
	Arsine	content in alkaline and			TWA: 0.5 mg/m ³
	0.05 mg/m ³ TWA	alkali-earth oxide			TWA: 5 mg/m ³
	except CdO fumes and	(Na2O+K2O+CaO+Mg			
	CdS	O+BaO) below 18% in			
	10 mg/m ³ STEL	weight			
	0.6 mg/m ³ STEL				
	5 mg/m ³ TWA				
	0.5 mg/m ³ TWA				
	0.2 mg/m ³ TWA				
	0.1 mg/m ³ TWA except				
	Hydrogen telluride		1		

Chemical Names	Thailand	Turkey	United Kingdom	Venezuela	
Fiberous Glass	TWA: 0.2 mg/m ³	TWA: 0.15 mg/m ³	STEL: 6 fibres/cm3	TWA: 0.002 mg/m ³	
			STEL: 0.3 mg/m ³	TWA: 0.05 ppm	
			STEL: 0.45 mg/m ³	TWA: 0.1 mg/m ³	
			STEL: 1.5 mg/m ³	TWA: 0.2 mg/m ³	
			STEL: 10 mg/m ³	TWA: 0.5 mg/m ³	
			STEL: 0.075 mg/m ³	TWA: 1 fiber/cm3	
			STEL: 15 mg/m ³	TWA: 5 mg/m ³	
			TWA: 5 mg/m ³	STEL: 10 mg/m ³	
			TWA: 0.1 mg/m ³		
			TWA: 0.15 mg/m ³		
			TWA: 0.5 mg/m ³		
			TWA: 2 fibres/cm3		
			TWA: 0.025 mg/m ³		

Occupational exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas

PPE

If exposure limits are exceeded or irritation is experienced, the user must determine if any locally approved respiratory protection must be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Proper skin and eye protection should also be determined by the user. Respiratory, skin and eye protection must be provided in accordance with current local regulations. Considerations to aid the user in PPE assessments follow.

Respiratory protection

Respiratory protection is not necessary for normal handling of material which does

not release dust. Dust mask P3/FFP3 or (P2/FFP2) under dusty conditions.

Eye protection Skin protection Tightly fitting safety goggles.

Protective gloves. Long sleeved clothing.

General industrial hygiene

practice

Remove and wash contaminated clothing before re-use. Wash hands before breaks

and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Solid **Appearance** Weave White Color Odor None known pН

Flash point Flammability Limits in Air

Specific Gravity

Odorless

No data available

Upper None known Lower None known 2.1 g/cm3

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions

Conditions to avoid Avoid dust formation.

Materials to avoid Strong oxidizing agents. Hydrofluoric acid.

Hazardous decomposition

products

None known

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Chemical Names	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Fiberous Glass	-	-	-	

Potential health effects

Acute effects

Eye irritation Skin irritationContact with eyes may cause irritation.

Substance may cause slight skin irritation.

Ingestion Not a normal route of exposure.

Inhalation May cause irritation of respiratory tract.

Chronic toxicity

Chronic toxicity None known

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a

carcinogen:

Chemical Names	ACGIH	NTP	OSHA	IARC	Argentina
Fiberous Glass	A3	Known Carcinogen	Present	Group 3	A2
	A2	Reasonably Anticipated		,	A3 - Confirmed animal
	A3	1 2 1			carcinogen with
1		1			unknown relevance to
		1 1			humans
		1			A4 - Not classifiable as
		1			a human carcinogen
		1			A2 - Suspected human
					carcinogen

Chemical Names	Australia	Austria	Belgium	Chile	Croatia
Fiberous Glass	Listed	Group A1 Carcinogen Group A2 Carcinogen	Carcinogen	A3	Not Listed

Chemical Names	Czech Republic	Denmark	Egypt	Estonia	EU
Fiberous Glass	Not Listed	Carcinogen	Listed	Listed	Not Listed

Chemical Names Germany France Hungary Iceland Ireland Kategorie 1 (verursacht carcinogenic substance Category 1 Carcinogen Fiberous Glass Not Listed Listed Krebs beim Menschen) (except Arsine) Kategorie 2 (eingestuft Category 2 Carcinogen (except Cadmium oxide als möglicherweise krebserregend für den fume and Cadmium Menschen) sulphide pigments) Kategorie 2 (bioverfügbar, einatembare Stäube/aerosol form) Kategorie 3 (bioverfügbar, einatembare Stäube/aerosol form) Massenkonzentration: 0.05 mg/m³ Massenfluss: 0.15 g/h **Chemical Names** Italy Japan Lithuania Luxembourg Mexico Fiberous Glass Not Listed Group 1 - Carcinogenic Listed Not Listed Listed to Humans (except Ni metal) Group 2B Group 1 - Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Philippines **Chemical Names** Netherlands New Zealand Norway Poland Fiberous Glass Not Listed A2 - suspected human Carcinogen Not Listed Listed carcinogen A3 - confirmed animal carcinogen with unknown relevance to humans Portugal **Chemical Names** Romania Russia Slovak Republic Slovenia Fiberous Glass A2 - Suspected Human Listed Listed Listed Listed Carcinogen A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans A4 - Not Classifiable as a Human Carcinogen Chamical Names South Africa Cnain Swadon Switzerland Taiwan

Chemical Names	South Africa	Spain	Sweden	Switzeriand	Talwan
Fiberous Glass	Listed	Not Listed	Carcinogen	Category C2	Listed
				carcinogen	
				Category C3	
				carcinogen	
Chemical Names	United Kingdom	Venezuela			
	per construction of the construction	1 0110-010			
Fiberous Glass	Not Listed	A3			1

Fiberous Glass

Not Listed

A3

A4 - Not Classified as a Carcinogen in Humans

Sensitization	None known

Mutagenic effects

None known

Reproductive effects

None known

Target Organ effects

Respiratory system. Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

Information follows.

Fiberous Glass

Water Flea Data

48 Hr EC50 Daphnia magna: 0.9 μg/L; 96 Hr LC50 Daphnia magna: 5 μg/L; 96 Hr LC50 Hyalella azteca: 1.4-2.3 μg/L ()

Persistence and degradability

None known

Bioaccumulation

None known

Mobility in Environmental Media None known

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with local regulations

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

Labelling

Symbol(s)

In accordance with Directive EC 1272/2008 and its amendments, this substance does not need to be classified nor labelled

state)

R -phrase(s)

S -phrase(s)

International Inventories

nternational inventories										
Chemical Names	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Fiberous Glass	X	-	Χ	X	-	X	-	X	X	X

Germany

Overall product WKG Classification:

Component WGK Classification

Chemical Names	Germany Water Classifications
Fiberous Glass	This substance is not classified as dangerous according to German legislation

Switzerland

Switzerland Poison Classification

None known

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product may contain a chemical or chemicals, if listed below, which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazardous Categorization

Chemical Names SARA 313 - Threshold Values

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Release of Pressure	Reactive Hazard
-	-	-	-	-

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Names	Category	Type
Fiberous Glass (CAS #: 65997-17-3)	Carcinogen	13.
	Developmental	

State Right-to-Know

Chemical Names	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Fiberous Glass	X	X	X	X	X

Canada

WHMIS hazard class

Non-controlled

Australia

Australian Hazchem Code Poison Schedule Number

None known None known

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

None

Prepared By

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Revision Date

2011-04-18

Reason for Revision

Product name updated and routine review.

Pyrotek Incorporated, and its affiliates and subsidiaries ("Pyrotek"), believe that the information contained in this Material Safety Data Sheet ("MSDS") is accurate as of the revision date. The American English translation precedes all other translations. However, Pyrotek makes no representations as to the completeness or accuracy of this information and makes NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED. The information in this MSDS relates only to the specific material designated herein, and may not be valid where such product is used in combination with any other materials or in any process. The health and safety data contained herein may not be adequate for all individuals and/or situations. All materials may present unknown hazards. It is the user's obligation to evaluate and use this information and/or the product safely and in compliance with all applicable laws and regulations. In no event will Pyrotek be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon, the information contained herein.