

## SECTION 1: Identification

### 1.1. Identification

Product name : PriorFire Formula 51

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insulates fireplace smoke chambers

### 1.3. Details of the supplier of the safety data sheet

SaverSystems  
800 7th Street  
Richmond, IN 47374  
T 800-860-6327  
[www.saversystems.com](http://www.saversystems.com)

### 1.4. Emergency telephone number

Emergency number : ChemTel LLC  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

STOT RE 1 H372

Full text of hazard classes and H-statements : see section 16

### 2.2. Label elements

#### GHS US labeling

Hazard pictograms (GHS US) :



GHS08

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P314 - Get medical advice/attention if you feel unwell.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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Name	Product identifier	%	GHS US classification
Proprietary Component 1	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 2	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 3	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 4	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 5	(CAS-No.) Proprietary	Trade Secret	Carc. 1A, H350 STOT RE 1, H372
Proprietary Component 6	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 7	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 8	(CAS-No.) Proprietary	Trade Secret	Carc. 1A, H350
Proprietary Component 9	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 10	(CAS-No.) Proprietary	Trade Secret	Not classified
Water	(CAS-No.) 7732-18-5	Trade Secret	Not classified
Proprietary Component 11	None	Trade Secret	Not classified
Proprietary Component 12	(CAS-No.) Proprietary	Trade Secret	Not classified
Proprietary Component 13	(CAS-No.) Proprietary	Trade Secret	Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
- First-aid measures after eye contact : Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes damage to organs through prolonged or repeated exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use suitable extinguishing media for surrounding fire.
- Unsuitable extinguishing media : None.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : May form combustible dust concentrations in air.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel. Do not breathe dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Notify authorities if product enters sewers or public waters.

### 6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Avoid contact with skin, eyes and clothing. Avoid dust formation.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Store in a dry, cool place and away from direct sunlight, extremely high or low temperatures and incompatible materials.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Proprietary Component 3 (Proprietary )		
NIOSH	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
Proprietary Component 2 (Proprietary )		
Not applicable		
Proprietary Component 7 (Proprietary )		
Not applicable		
Proprietary Component 10 (Proprietary )		
Not applicable		
Proprietary Component 12 (Proprietary )		
Not applicable		
Proprietary Component 1 (Proprietary )		
Not applicable		
Proprietary Component 5 (Proprietary )		
ACGIH	ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
OSHA	OSHA PEL (TWA) [1]	50 µg/m <sup>3</sup>
IDLH	IDLH	50 mg/m <sup>3</sup> (respirable dust)
NIOSH	NIOSH REL (TWA)	0.05 mg/m <sup>3</sup> (respirable dust)
Proprietary Component 6 (Proprietary )		
Not applicable		
Proprietary Component 4 (Proprietary )		
ACGIH	ACGIH OEL TWA	2 mg/m <sup>3</sup> (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
NIOSH	NIOSH REL (TWA)	10 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)

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Proprietary Component 8 (Proprietary )		
ACGIH	ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (respirable particulate matter)
OSHA	OSHA PEL (TWA) [1]	50 µg/m <sup>3</sup>
IDLH	IDLH	25 mg/m <sup>3</sup> (respirable dust)
NIOSH	NIOSH REL (TWA)	0.05 mg/m <sup>3</sup> (respirable dust)
Proprietary Component 9 (Proprietary )		
IDLH	IDLH	3000 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA)	6 mg/m <sup>3</sup>
Proprietary Component 13 (Proprietary )		
ACGIH	ACGIH OEL TWA	10 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust)
IDLH	IDLH	5000 mg/m <sup>3</sup>
Water (7732-18-5)		
Not applicable		
Proprietary Component 11		
Not applicable		

### 8.2. Exposure controls

Hand protection	: Wear protective gloves.
Eye protection	: Chemical safety goggles.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, use NIOS approved respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Color	: Gray
Odor	: Slight earthy
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

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### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical stability

Stable under normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Not determined.

### 10.6. Hazardous decomposition products

Not determined.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Proprietary Component 10 (Proprietary )	
LD50 oral rat	> 2000 mg/kg
ATE US (oral)	8000000 mg/kg

Proprietary Component 4 (Proprietary )	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Proprietary Component 9 (Proprietary )	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.2 mg/l (Exposure time: 1 h)

Proprietary Component 13 (Proprietary )	
LD50 oral rat	> 10000 mg/kg

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Proprietary Component 10 (Proprietary )	
IARC group	3 - Not classifiable

Proprietary Component 5 (Proprietary )	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes

Proprietary Component 8 (Proprietary )	
IARC group	1 - Carcinogenic to humans

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Proprietary Component 8 (Proprietary )	
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes
Proprietary Component 9 (Proprietary )	
IARC group	3 - Not classifiable
Proprietary Component 13 (Proprietary )	
IARC group	2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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Proprietary Component 9 (Proprietary )	
LC50 - Fish [1]	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)

### 12.2. Persistence and degradability

PriorFire Formula 51	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

PriorFire Formula 51	
Bioaccumulative potential	Not established.

Proprietary Component 9 (Proprietary )	
BCF - Fish [1]	(no bioaccumulation expected)

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information	: Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	: Avoid release to the environment.

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Proprietary Component 2 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 7 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 10 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Proprietary Component 12 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Proprietary Component 5 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 6 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 4 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 8 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 9 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Proprietary Component 13 (Proprietary )</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### 15.2. US State regulations

<b>Proprietary Component 13 (Proprietary )</b>				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
<b>Proprietary Component 3 (Proprietary )</b>				
U.S. - Massachusetts - Right To Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>Proprietary Component 7 (Proprietary )</b>				
U.S. - Massachusetts - Right To Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List				

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### Proprietary Component 5 (Proprietary )

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Proprietary Component 6 (Proprietary )

U.S. - Pennsylvania - RTK (Right to Know) List

### Proprietary Component 4 (Proprietary )

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Proprietary Component 8 (Proprietary )

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Proprietary Component 9 (Proprietary )

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

### Proprietary Component 13 (Proprietary )

U.S. - Massachusetts - Right To Know List  
U.S. - Minnesota - Hazardous Substance List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases:

Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*