

FRE^{MD} SAFETY DATA SHEET

BREATH SAVER[®] XW

2-HOUR RATED CABLE SYSTEM (UL2196| FHIT 25C)

1. IDENTIFICATION

Product identifier	BreathSaver [®] XW
Product code	N/A
Other means of identification	None.
Recommended use of the chemical and restrictions on use	Conduit System Product for Electrical and / or Telecommunication Aboveground, concealed or exposed installations. In the case of XW wall thickness products, it is suitable for physical damage locations per (NEC [®]) in the United States. Not recommended for any other use not detailed on product data sheet or label.
Manufacturer	<p>FRE COMPOSITES INC. 75 Wales Street Saint-André-d'Argenteuil Quebec, Canada J0V 1X0 Tel: 450-537-3311 Tel toll-free: 1-888-849-9909 www.frecomposites.com</p> <p>FRE COMPOSITES USA INC. 60 Greenhorn Drive Pueblo, CO USA 81004 Tel. : 719 565-3311</p>
Emergency phone number	1-888-849-9909

2. HAZARD IDENTIFICATION

Summary	<p>This product is not regulated according to the Canadian Hazardous Products Act (HPA) and Hazardous Products Regulations (HPR) SOR/2015-17 (or WHMIS 2015) and to OSHA 29CFR Part 1910.1200 (HazCom 2012).</p> <p>WHMIS 2015/GHS/OSHA HCS 2012</p> <p>Not Regulated under WHMIS 2015</p> <p>Not Regulated under OSHA HCS 2012/GHS</p>
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Common name	CAS	Weight % content
Glass, oxide, chemicals	65997-17-3	60 - 80 %
Polymerized resin	Polymer Resin	20 - 40 %
Carbon black	1333-86-4	0.1 - 1 %

Note: Polymerized resin does not have a known CAS number. This ingredient has no physical danger and no health danger.

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4. FIRST-AID MEASURES

Inhalation	No first aid is necessary.
Skin contact	No first aid is necessary.
Eye contact	Flush with water for at least 15 minutes. Remove contact lenses if easy to do. Hold eyelids apart to rinse properly. If a problem develops or persists, seek medical attention.
Ingestion	Not relevant to this product.
Other	No additional information.
Symptoms	No critical hazards to health.
Notes to the physician	No additional information.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use appropriate extinguisher for surrounding fire.
Specific hazards arising from the chemical	No hazard listed.
Special protective equipment	Firefighters must wear self contained breathing apparatus with full face mask.
Special protective actions for firefighters	None reported.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Make sure to wear personal protective equipment mentioned in this Safety Data Sheet.
Environmental precautions	No hazard listed.
Methods and materials for containment and cleaning up	Pick up mechanically and reuse as long as it is not contaminated.

7. HANDLING AND STORAGE

Precautions for safe handling	Wear eye protection, gloves and other protective clothing that are adapted to the task being performed and the risks involved.
Conditions for safe storage, including any incompatibilities	Keep away from direct sunlight and heat.
Storage temperature	15 to 25°C (59 to 77°F)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Immediately Dangerous to Life or Health		Carbon black: 1750 mg/m ³ .			
Glass, oxide, chemicals	TWA (8 h)	Inhalable Fraction	5 mg/m ³	1 f/cc	ACGIH
		Total Dust	10 mg/m ³		RSST
		Total Dust	15 mg/m ³		OSHA
Carbon black	Ceiling TWA (8h)		3.5 mg/m ³		OSHA
			3 mg/m ³		ACGIH , BC, ON
			3.5 mg/m ³		RSST
Appropriate engineering controls		Provide sufficient mechanical ventilation (general or local exhaust) to keep the airborne concentrations of vapours, mists, aerosols or dust below their respective occupational exposure limits.			

Individual protection measures

Eye	Wear safety glasses with side shields.
Hands	Wear leather gloves, nitrile or neoprene gloves. Discard gloves with tears, pinholes, or signs of wear.
Skin	Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear normal work clothing covering arms and legs as required by employer code.
Respiratory	Respiratory protection is not required for normal use. Wear a respirator where the conditions in the workplace require it. Moreover, respiratory protection equipment (RPE) must be selected, fitted, maintained and inspected in accordance with regulations and standard 29 CFR 1910.134 (OSHA), ANSI Z88.2 or CSA Z 94.11 (Canada) and approved by NIOSH/MSHA.
Feet	None

Safety glasses



Nitrile gloves



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Flammability	Non-flammable
Colour	Black	Flammability limits	N/Ap.
Odour	Odourless	Flash point	N/Ap.
Odour threshold	N/Av.	Auto-ignition temperature	N/Av.
pH	N/Ap.	Sensibility to electrostatic charges	No
Melting point	N/Av.	Sensibility to sparks and/or friction	No
Freezing point	N/Av.	Vapour density	N/Av. (Air = 1)
Boiling point	N/Av.	Relative density	1.93 kg/L (Water = 1)
Solubility	Insoluble in water.	Partition coefficient n-octanol/water	N/Av.
Evaporation rate	N/Av.	Decomposition temperature	N/Av.
Vapour pressure	N/Av.	Viscosity	N/Av.
Percent Volatile	N/Av.	Molecular mass	N/Ap.

N/Av.: Not Available N/Ap.: Not Applicable Und.: Undetermined N/E: Not Established

10. STABILITY AND REACTIVITY

Reactivity	No reaction expected.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions (including polymerizations)	Hazardous polymerization will not occur.
Conditions to avoid	None reported.
Incompatible materials	Not applicable.
Hazardous decomposition products	No decomposition product.

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11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity	Glass, oxide, chemicals	Ingestion	>2000 mg/kg	Rat	LD50	
		Skin	>2000 mg/kg	Rabbit	LD50	
	Carbon black	Ingestion	>15400 mg/kg	Rat	LD50	
		Skin	>3000 mg/kg	Rabbit	LD50	
Likely routes of exposure	Skin, eyes, inhalation, ingestion.					
Delayed, immediate and chronic effects	Eye contact	Not irritating (OECD TG 405). The friction can cause mechanical eyes irritation.				
	Skin contact	Not irritating (OECD TG 404). The mechanical friction can cause skin irritation.				
	Inhalation	No significant effects or critical hazards to health.				
	Ingestion	Not a likely route of exposure.				
	Respiratory or skin sensitization	Ingredients present at levels greater than or equal to 0.1% of this product are not skin or respiratory sensitizers.				
	IARC/NTP Classification	Common name	IARC	NTP		
		Glass, oxide, chemicals	-	R		
		Carbon black	2B	-		
		IARC : 1- Carcinogenic; 2A- Probably carcinogenic; 2B- Possibly carcinogenic. NTP : K- Known to be carcinogens; R- Reasonably anticipated to be carcinogens.				
		Carcinogenicity	The product contains ingredients which are carcinogenic by inhalation of dust. However, the physical state of this product is not expected to produce dust. So there is no risk of cancer during normal use.			
	Mutagenicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause mutagenic effects.				
	Reproductive toxicity	Ingredients in this product present at levels greater than or equal to 0.1% are not known to cause reproduction effects.				
	Specific target organ toxicity - single exposure	No target organ is listed.				
	Specific target organ toxicity - repeated exposure	No target organ is listed.				
Interactive effects	No information available for this product.					
Other information	The oral and skin acute toxicity estimates (ATE) of the mixture were calculated to be greater than 2000 mg/kg. The acute toxicity estimate (ATE) by inhalation (dust/mist) of the mixture was calculated to be greater than 5 mg/L/4h. These values are not classified according to WHMIS 2015 and OSHA HCS 2012.					

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12. ECOLOGICAL INFORMATION

Ecological toxicity	Fish various LC50 > 100 mg/l ; 96h
Persistence	Contains an or many ingredients that may be persistent in the environment.
Degradability	No information available for this product.
Bioaccumulative potential	No bioaccumulation.
Mobility in soil	The product is a mixture whose ingredients have moderate to low mobility in the soil.
Other adverse effects	This chemical does not deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

	IMPORTANT! Prevent waste generation. Use in full. Residue can be reprocessed (recycled) where there is a recovery program. Observe all federal, state/provincial and municipal regulations. If necessary consult the Department of Environment or the relevant authorities.
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14. TRANSPORT INFORMATION

UN Number	UN N/A
UN Proper Shipping Name	Not regulated by TDG (Canada) and 49 CFR DOT (USA).
Environmental hazards	This material does not contain marine pollutant.
Special precautions for user	No information available.
TDG - Transportation of Dangerous Goods (Canada)	
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Emergency response guidebook 2016	
IMO/IMDG - International Maritime Transport	
Classification	Not regulated
IATA - International Air Transport Association	
Classification	Not regulated

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. In addition, if a domestic exemption exists, it is the responsibility of the shipper to define the application of it.

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15. REGULATORY INFORMATION

CANADA

Common name	CAS	CEPA	DSL	NDSL	NPRI
Glass, oxide, chemicals	65997-17-3		✓		
Polymerized Resin	Polymer Epoxy		✓		
Carbon black	1333-86-4		✓		

- CEPA: List of Toxic Substances Managed Under Canadian Environmental Protection Act

- DSL: Domestic Substances List Inventory

- NDSL: Non-Domestic Substances List Inventory

- NPRI: National Pollutant Release Inventory Substances

UNITED STATES OF AMERICA

Common name	CAS	TSCA	CER CLA	EPCRA 313	EPCRA 302/304	CAA 112(b) HON	CAA 112(b) HAP	CAA 112(r)	CWA 311	CWA Prio.
Glass, oxide, chemicals	65997-17-3	✓								
Polymerized Resin	Polymer Resin	✓								
Carbon black	1333-86-4	✓								

- TSCA : Toxic Substance Control Act

- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act list of hazardous substances

- EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313 Toxic Chemicals

- EPCRA 302/304: Emergency Planning and Community Right-to-Know Act, Section 302/304 Extremely Hazardous Substances

- CAA 112(b) HON: Clean Air Act - Hazardous Organic National Emission Standard for Hazardous Air Pollutant

- CAA 112(b) HAP: Clean Air Act - Hazardous Air Pollutants lists pollutants

- CAA 112(r): Clean Air Act - Regulated Chemicals for Accidental Release Prevention

- CWA 311: Clean Water Act - List of Hazardous Substances

- CWA Priority: Clean Water Act - Priority Pollutant list

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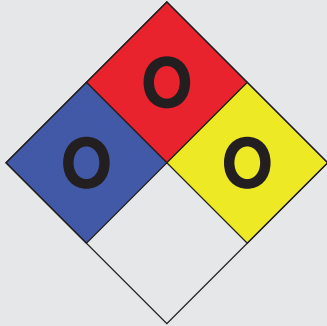
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CALIFORNIA PROPOSITION 65

Common name	CAS	Cancer	Reproductive and Developmental Toxicity								
Carbon black	1333-86-4	✓									
Other regulations	<p>State of California EPA (OEHHA): Carbon black (airborne, unbound particles of respirable size) is listed as a cancer causing agent (through inhalation), under California Safe Drinking Water and Toxic Enforcement Act (California proposition 65). This product does not present such risk as the composition percentage is minimal and is completely bound to other material (thermosetted resin).</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>HMIS</p> <table border="1" style="border-collapse: collapse; width: 150px;"> <tr><td style="background-color: #0056b3; color: white; text-align: center;">○</td><td style="background-color: #0056b3; color: white;">Health</td></tr> <tr><td style="background-color: #e31a1c; color: white; text-align: center;">○</td><td style="background-color: #e31a1c; color: white;">Flamability</td></tr> <tr><td style="background-color: #ffff00; color: black; text-align: center;">○</td><td style="background-color: #ffff00; color: black;">Reactivity</td></tr> <tr><td style="background-color: #cccccc; color: black; text-align: center;">○</td><td style="background-color: #cccccc; color: black;">Protective Equipment</td></tr> </table> </div> <div style="text-align: center;"> <p>NFPA</p>  </div> </div>			○	Health	○	Flamability	○	Reactivity	○	Protective Equipment
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○	Flamability										
○	Reactivity										
○	Protective Equipment										

16. OTHER INFORMATION

Date (YYYY-MM-DD)	FRE COMPOSITES INC. 2022-00-00			
Version	01			
Other information	<p>REFERENCES:</p> <ul style="list-style-type: none"> - Haz-Map, Information on Hazardous Chemicals and Occupational Diseases, http://hazmap.nlm.nih.gov/index.php - Service du répertoire toxicologique de la Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST), http://www.reptox.csst.qc.ca <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>ACGIH: American Conference of Governmental Industrial Hygienists</p> <p>AIHA: American Industrial Hygiene Association</p> <p>HMIS: Hazardous Materials Identification System</p> <p>NFPA: National Fire Protection Association</p> <p>OSHA: Occupational Safety and Health Administration (USA)</p> <p>NIOSH: National Institute for Occupational Safety and Health</p> <p>NTP: National Toxicology Program</p> </td> <td style="width: 50%; vertical-align: top;"> <p>RSST: Règlement sur la santé et la sécurité du travail (Québec)</p> <p>GHS: Globally Harmonized System</p> <p>IARC: International Agency for Research on Cancer</p> <p>IDLH: Immediately Dangerous to Life or Health</p> <p>STEL: Short Term Exposure Limit (15 min)</p> <p>TWA: Time Weighted Averages</p> <p>WHMIS: Workplace Hazardous Materials Information System</p> </td> </tr> </table> <p>As to the best of our knowledge, the information contained herein is accurate. However, neither Preventis System nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p>		<p>ACGIH: American Conference of Governmental Industrial Hygienists</p> <p>AIHA: American Industrial Hygiene Association</p> <p>HMIS: Hazardous Materials Identification System</p> <p>NFPA: National Fire Protection Association</p> <p>OSHA: Occupational Safety and Health Administration (USA)</p> <p>NIOSH: National Institute for Occupational Safety and Health</p> <p>NTP: National Toxicology Program</p>	<p>RSST: Règlement sur la santé et la sécurité du travail (Québec)</p> <p>GHS: Globally Harmonized System</p> <p>IARC: International Agency for Research on Cancer</p> <p>IDLH: Immediately Dangerous to Life or Health</p> <p>STEL: Short Term Exposure Limit (15 min)</p> <p>TWA: Time Weighted Averages</p> <p>WHMIS: Workplace Hazardous Materials Information System</p>
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