



MSDS - Pillow

MATERIAL SAFETY DATA SHEET

Product Identifier **Firestop Pillow**
Product Use Fire and Smoke Stop Pillow
Manufacturer Passive Fire Protection Partners, 1412 Derwent Way, Delta, BC V3M 6H9
Emergency Number (800) 810 - 1788

INGREDIENT INFORMATION

Mineral Wool Board

Ingredient	CAS #	% (wt.)	LC ₅₀ (rat)	LD ₅₀ (rat)	TLV	STEL
Mineral Fiber	None	N/A	N/A	N/A	10 mg/m ³	N/A
Cure Resin	25104-55-6	N/A	N/A	N/A	N/A	N/A

Intumescent Strip

Ingredient	CAS #	% (wt.)	LC ₅₀ (rat)	LD ₅₀ (rat)	TLV	STEL
Polybutenes Polymers	9003-29-6	< 40	N/A	N/A	N/A	N/E
Calcium Carbonate	1317-65-3	< 40	N/A	N/A	10 mg/m ³	N/E
Auxiliary Chemicals	N/A	< 10	N/A	N/A	N/A	N/A
Natural Graphite	7782-42-5	< 30	N/A	N/A	2.0 mg/m ³	N/E
Sulfuric Acid	7664-93-9	< 10	N/A	N/A	1 mg/m ³	N/E
Nitric Acid ¹	7697-37-2	< 5	N/A	N/A	5.2 mg/m ³	N/E

NOTE: THE ACID COMPONENTS OF THIS PRODUCT ARE ENCAPSULATED WITHIN THE NATURAL GRAPHITE MATRIX. THEY DO NOT POSE A HAZARD DURING NORMAL USE OR HANDLING.

PHYSICAL PROPERTIES

	<u>Mineral Wool Board</u>	<u>Intumescent Strip</u>
Appearance / Physical State	Grey / brown board	Black solid
Odour	May have a slight resin odour	Low resin odour
Odour Threshold	N/A	N/A
Vapour Pressure (mm Hg)	N/A	N/A
Vapour Density (Air = 1)	N/A	N/A
Coefficient of H₂O/Oil Distrib	N/A	N/A
Specific Gravity (@25°C)	N/A	1.50 - 1.70
Evaporation Rate	N/A	N/A
Boiling Point (°C)	N/A	N/A
Freezing Point (°C)	N/A	N/A
pH	N/A	N/A
VOC contents (g/L)	N/A	0





FIRE AND EXPLOSION DATA

	<u>Mineral Wool Board</u>	<u>Intumescent Strip</u>
Flammability	Non-combustible	No
Means of Extinction	Water, Foam, Carbon Dioxide or Dry Powder	CO ₂ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special Fire-fighting Procedures	Observe normal fire fighting procedures	Firefighters should wear the usual protective gear, including the use of self-contained breathing apparatus.
Auto-ignition Temperature (°C)	N/A	N/A
Flash Point (°C) / Method	N/A	214 (PMCC)
Upper Flammable Limit (% Vol.)	N/A	N/A
Lower Flammable Limit (% Vol.)	N/A	N/A
Sensitivity to Mechanical Impact	N/A	No
Sensitivity to Static Discharge	N/A	No
Hazardous Combustion Products	Carbon Dioxide, Carbon Monoxide and trace gases	Thermal decomposition or combustion may produce dense smoke, oxides of carbon, sulfur, nitrogen and low molecular weight organic compounds whose compositions has not been characterized. Material volume will increase up to 200 times when exposed to intense heat.

REACTIVITY DATA

	<u>Mineral Wool Board</u>	<u>Intumescent Strip</u>
Stability	Stable	Stable at normal conditions
Condition of Reactivity	Not reactive	Material will expand when exposed to temperatures above 150°C (302°F).
Incompatible Materials	This product reacts with hydrofluoric acid.	Concentrated acids or bases.
Hazardous Decomposition Products	Carbon Dioxide, Carbon Monoxide and trace amounts of formaldehyde when heated above gases 200°C (390°F).	Oxides of carbon, sulfur, nitrogen and low molecular organic compounds.
Hazardous Combustion Products	Carbon Dioxide, Carbon Monoxide and trace gases	Thermal decomposition or combustion may produce dense smoke, oxides of carbon, sulfur, nitrogen and low molecular weight organic compounds whose compositions has not been characterized. Material volume will increase up to 200 times when exposed to intense heat.





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TOXICOLOGICAL PROPERTIES

Routes of Exposure	<input checked="" type="checkbox"/> Skin contact	<input type="checkbox"/> Skin absorption	<input type="checkbox"/> Eye contact	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
Effects of Acute Exposure to Product	None known				
Effects of Chronic Exposure to Product	None known				
Exposure Limits	None known				
Irritancy of Product	None known				
Sensitization of Product	None known				
Carcinogenicity	None known				
Teratogenicity	None known				
Reproductive Toxicity	None known				

FIRST AID MEASURES

Eye Contact	Immediately flush eyes with large amount of water. Get immediate medical attention.
Skin Contact	Flush skin with large amount of soapy water. If irritation persists, get medical attention.
Inhalation	Remove person to fresh air and get medical attention IMMEDIATELY.
Ingestion	Get medical attention IMMEDIATELY.

PREVENTIVE MEASURES

Engineering Controls	Standard industrial ventilation is recommended during normal use.
Personal Protective Equipment	Not generally required during normal use and handling.
Eye Protection (Specify)	Safety glasses
Skin Protection (Specify)	Chemical resistant nitrile, neoprene or rubber gloves are recommended if contact to the product directly.
Respiratory (Specify)	None normally required. However, if conditions warrant, use a NIOSH/MSHA approved respirator.
Other	

PRECAUTION FOR SAFE HANDLING AND USE

Handling Procedure and Equipment	N/A
Storage Requirement	Material should be kept under protective cover, in their original containers and stored below 49°C (120°F).
Spills, Leaks or Releases	Wear protective equipment during cleanup.
Waste Disposal	Waste must be disposed of in accordance with federal, provincial and local environmental control regulations.
Special Shipping Instructions	N/A

REACTIVITY DATA

	<u>Mineral Wool Board</u>	<u>Intumescent Strip</u>
WHMIS	No controlled	D2A, E
HMIS	None known	Health 1, Flammability 0, Reactivity 0, Personal Protection B
TDG Regulation	None known	None known
TSCA	All ingredients of this product are on the inventory list.	All ingredients of this product are on the inventory list.
DSL	None known	All ingredients of this product are on the inventory list.

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PREPARATION INFORMATION

Prepared by	Chemical Laboratory, Passive Fire Protection Partners
Preparation Date	September 12, 2017
Telephone	(604) 515-1788
Website	www.firestop.com
Abbreviations Used	<p>% (wt.) = Weight Percentage ACGIH = American Conference of Governmental Industrial Hygienists CAS Number = Chemical Abstracts Series Number DSL = Domestic Substance List in Canada H = Hours HMIS = Hazardous Material Identification System IARC = International Agency for Research on Cancer LC₅₀ = Lethal Concentration, 50% LD₅₀ = Lethal Dose, 50% MSHA = Mine Safety and Health Administration N/A = Not Applicable or Not Available N/E = None Established NIOSH = The National Institute for Occupational Safety and Health NTG = National Toxicology Program OSHA = The Occupational Safety and Administration STEL = Short Term Exposure Limit TDG = Transportation of Dangerous Goods TLV = Threshold Limit Value TSCA = Toxic Substance Control Act in US VOC = Volatile Organic Compounds WHMIS = Workplace Hazardous Material Identification System</p>

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