



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: WS1 - Wrap Strip **Product Code:** DS2-40J
Product Type: Intumescent Flexible Strip **Use:** Firestopping laminate
Chemical Family: Organic/Inorganic

Company Address:
Passive Fire Protection Partners
1412 Derwent Way
Delta, BC V3M 6H9
Canada

Contact Information:
Telephone: 800.810.1788
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.firestop.com

SECTION 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Not Applicable:

According to REACH Reg. (EC) No. 1907/2006 the product is declared as an **article** and is not subject to the provisions of classification according to CLP Regulation (EC) No. 1272/2006. Directive 67/548/EC or Directive 1999/45/EC.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:

Hazard Symbols: None

Precautionary Statements:

P102 - Keep Out Of Reach of Children
P264 - Wash Hands Thoroughly After Handling

OTHER HAZARDS:

Dust may cause irritation of eyes and respiratory tract by mechanical friction. Occupational exposure limits are to be observed.

SECTION 3. COMPOSITION /INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION

The WS1 - is a graphite based intumescent fire protection laminate.

Carrier material: Glass fibre mat
Appearance: Solid, flexible
Form of delivery: Strips and rolls
Thickness: 2.5 mm (0.1 in)

According to United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard) and under Canadian Regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)) this product is declared as an article.

The article does not contain any substances in concentrations of $\geq 0.1\%$ listed on the candidate of list of Substances of Very High Concern (SVHC).

This article is free of organic solvents.

SDS - WS1





SECTION 4. FIRST AID MEASURES

Description of first aid measures:	Under normal handling conditions the product presents no significant health hazards. In any cases of doubt seek medical advice.
General rule:	Seek medical advice if symptoms occur. Never give anything by mouth to an unconscious person or a person with cramps.
In case of inhalation of dust:	Provide fresh air. Consult a physician if symptoms occur. If unconscious place and transport in recovery position.
In case of skin contact:	Wash affected area immediately with soap and water. Consult a physician.
In case of eye contact:	Small particles can cause an irritation by mechanical friction. In case of contact with eyes immediately flush eyes with plenty of water for at least 15 minutes. If symptoms develop and persist, get medical attention.
In case of ingestion:	Rinse mouth thoroughly with cold water. Avoid vomiting. Give plenty of water. Call a physician if discomfort persists.
Symptoms:	No information available.
Medical attention and special treatment need:	Depending on the condition of the patients, the doctor must assess the symptoms and the overall general conditions.

SECTION 5. FIRE FIGHTING MEASURES

Reaction to fire:	B1, slowly combustible
Extinguishing media:	CO ₂ , Dry powder, water spray Fight larger fires with water jet or alcohol-resistant foam.
Special fire fighting procedures:	Do not breathe combustion gases. Wear protective equipment
Unusual fire or explosion hazards:	None known
Hazardous combustion products:	Carbon Dioxide (CO ₂), Phosphorus Oxides (P _x O _y) Material intumesces at approximately 190°C (374°F)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal protection:	No special measures required
Environmental precautions:	Do not allow to enter dust into surface water or drains.
Clean-up methods:	Treat the recovered material as prescribed in the section on waste disposal (Section 13).

SECTION 7. HANDLING AND STORAGE

Handling:	Observe protective measures and safety instructions. Avoid generation of dust.
Storage:	Store in a cool, dry and well ventilated area. Protect from frost and heat. Keep away from food and animal feeding stuffs. Keep away from children. Observe official regulations. Store at room temperature. Store in original container protected from direct sunlight, in a cool, dry area. Keep containers closed when not in use. Do not store in unlabeled containers.





SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Name	CAS#		TMW/KZW*		Notes	Duration [min]
			[ppm]	[mg/m ³]		
Graphite	7782-42-5	MAK		5A / 10A		2x60[Miw]
Bilog. inert suspended particles		MAK		10E / 20E 5A / 10A		

*TMW Daily average value

KZW Short-time value

Miw Average

E Breathable fraction

H Special danger of skin resorption.

A Alveolar fraction

S Substance causes allergic reactions at a level that is above average.

Exposure control:

When handling with chemical substances observe usual precautionary measures:
Keep away of foods and drinks.
When using do not eat, drink, smoke, sneeze. Wash hands after working with product.
Do avoid contact with skin and eyes. Avoid breathing dust.
Change contaminated clothing and wash before reuse.

Protective Use general ventilation and use local exhaust, where possible, in confined or enclosed space.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Not normally required. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye / Face protection:

Safety goggles or safety glasses with side shields.

Skin protection:

Chemical resistant, impermeable gloves; Neoprene, Butyl-rubber, or Nitrile-rubber gloves are recommended. The selection of suitable gloves depends not only on the material, but also on other quality characteristics. Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection:

Working clothes

Environmental exposure control measures:

Do not allow to enter dust into surface water or drains.





SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid, flexible
Color:	Grey
Odor:	Approximately none
Odor threshold:	No information available
pH:	N.A
Melting point/range:	No information available
Boiling point/range:	No information available
Flash point:	No information available
Flammable (solid, gas):	No information available
Upper explosive limits:	No information available
Lower explosive limits:	No information available
Vapor pressure:	No information available
Density @ 20°C (68°F):	ca. 1.2 g/cm ³ (74.9 pcf)
Solubility in water:	Almost insoluble
Partition coefficient (n-octanol/water):	No information available
Ignition temperature:	No information available
Decomposition temperature:	No information available
Viscosity:	No information available
Explosive properties:	The product itself is not explosive. During formation of dust, danger of dust explosion.
Other information:	
Reaction to fire:	B1, slowly combustible
Expansion temperature:	Approximately 190°C (374°F)
Thermal conductivity:	0.238 W/mk

For further specifications see technical data sheet

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions known if used as prescribed.
Chemical stability:	Stable under normal conditions. Material intumesces at approximately 190°C (374°F)
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid high temperatures and generation of dust.
Incompatible materials:	No data available.
Hazardous decomposition products:	No further information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:	Toxicological data for the product are not available
LD₅₀ values of single components relevant for classification:	No data available
Irritation and corrosive effects:	Skin: not irritant Eyes: not irritant - dust can cause irritation by mechanical friction. Respiratory tract: inhalation of dust can cause irritation by mechanical friction.
Sensitization:	The material contains a substance which is classified as skin sensitizing. The substance is embedded in a polymer matrix, thereby sensitization is not expected.
Carcinogenicity:	None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Government Industrial Hygienists (ACGIH).





Mutagenicity	The product does not contain any ingredients in a concentration of equal or higher than 0.1%, which are classified as mutagen.
Reproductive toxicity:	The product does not contain any ingredients in a concentration of equal or higher than 0.1%, which are classified as toxic for reproduction.
Other information:	According to REACH Reg. (EC) No. 1907/2006 the product is declared as an article and is not subject to the provisions of classification and labeling.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:	No ecotoxicity studies have been conducted on this product. According to REACH Reg. (EC) No. 1907/2006 the product is declared as an article and is not subject to the provisions of classification and labeling.
Aquatic toxicity of ingredients:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	No data available for this product
Other adverse effects:	Do not allow to enter dust into surface water or drains.

SECTION 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only:

Recommend method of disposal:	Dispose should be in accordance with applicable regional, national, Federal, State and local governmental regulations.
Waste disposal:	The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. This material and its containers must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product should at all times must comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Hazardous waste number:	It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG*	Label	Additional Information
DOT Classification	Not regulated	-	-	-	-	-
TDG Classification	Not regulated	-	-	-	-	-
Mexico Classification	Not regulated	-	-	-	-	-
ADR / RID Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA-DGR Class	Not regulated	-	-	-	-	-

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None





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Version: 1.0

Replaces Version:

Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

SECTION 15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory

TSCA 12 (b) Export Notification: None above reporting de minimus

CERCLA / SARA Section 302 EHS: None above reporting de minimus

CERCLA / SARA Section 311/312: Immediate health

CERCLA / SARA 313: None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present. No California Proposition 65 listed chemicals are known to be present

Canada Regulatory Information

CEPA DSL / NDSL Status: All components are listed on or exempt from listing on the Canadian Domestic Substances List.

WHMIS hazard class: Not controlled

SECTION 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections:

Prepared by: Chemical Laboratory

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SDS - WS1

