

# Material Safety Data Sheet

WHMIS 	Protective Clothing 	TDG Road / Rail
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## Section 1. Product Identification and Uses

<b>Product Name</b>	<b>SFX /24002 FLEX FILL EURO</b>	<b>CI#</b>	Not applicable.
<b>Synonyms</b>	Not available.	<b>DSL</b>	Not available.
<b>Chemical Name</b>	Not applicable.	<b>CAS #</b>	Not applicable.
<b>Chemical Formula</b>	Chemical mixture.	<b>Code</b>	SFX
<b>Chemical Family</b>	Various hydrocarbons.	<b>Molecular Weight</b>	Not applicable.
<b>Supplier</b>	Dominion Sure Seal Ltd. 6175 Danville Road, Mississauga, Ontario L5T 2H7 PHONE: (905) 670-5411	<b>Manufacturer</b>	Manufactured for: Dominion Sure Seal Ltd.
<b>Material Uses</b>	Flexible primer.		

## Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>
1) Ethyl Acetate	141-78-6	10-30	<b>ORAL (LD50)</b> mg/kg: Acute: 5620 (Rat). 4100 (Mouse). 4935 (Rabbit).
2) Acetone	67-64-1	15-40	<b>ORAL (LD50)</b> mg/kg: Acute: 9750 (Rat). <b>VAPOR (LC50)</b> ppm : Acute: 16000 (Rat) (4 hour(s)). 20000 (Rabbit) (4 hour(s)).
3) Methyl ethyl ketone	78-93-3	3-7	<b>ORAL (LD50)</b> mg/kg: Acute: 2737 (Rat). 3400 (Rat). 3600 (Rat). <b>DERMAL (LD50)</b> mg/kg: Acute: 13000 (Rabbit). <b>VAPOR (LC50)</b> ppm : Acute: 23500 (Rat) (4 hour(s)).
4) Methyl isobutyl ketone	108-10-1	5-15	<b>ORAL (LD50)</b> mg/kg: Acute: 1600 (Guinea pig). 2671 (Mouse). 4600 (Rat).
5) Isopropyl alcohol	67-63-0	1-5	<b>ORAL (LD50):</b> Acute: 3600 mg/kg [Mouse]. 5045 mg/kg [Rat].
6) Liquefied petroleum gas	68476-85-7	10-30	Not available.

## Section 3. Physical Data

<b>Physical State and Appearance</b>	Liquid (Aerosol Concentrate).	<b>Odor</b>	Characteristic.
<b>pH (1% Soln/Water)</b>	Not available.	<b>Taste</b>	Not available.
<b>Odor Threshold</b>	10 ppm based on data for: Ethyl Acetate. Weighted average: 4.34 ppm	<b>Color</b>	Grey.
<b>Volatility</b>	Not available.		
<b>Evaporation Rate</b>	5.7 based on data for: Methyl ethyl ketone. Weighted average: 4.73 [Butyl acetate.]		
<b>Melting Point</b>	Not available.		
<b>Boiling Point</b>	77°C (170.6°F) based on data for: Ethyl Acetate. Weighted average: 93.43°C (200.2°F)		
<b>Density</b>	0.890 - 0.910 (Water = 1)		
<b>Vapor Density</b>	Weighted average: 3.1 (Air = 1)		
<b>Vapor Pressure</b>	Weighted average: 51.56 mm of Hg (@ 20°C)		
<b>LogK<sub>ow</sub></b>	Not available.		
<b>Ionicity (Surface Active Agent)</b>	Not available.		

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<b>Critical Temperature</b>	Not available.
<b>Instability Temperature</b>	Not available.
<b>Conditions of Instability</b>	No additional remark.
<b>Dispersion Properties</b>	See solubility in water.
<b>Solubility</b>	Miscible in water.

### Section 4. Fire and Explosion Data

<b>The Product is:</b>	Extremely Flammable Aerosol.
<b>Auto-ignition Temperature</b>	404°C (759.2°F) based on data for: Methyl ethyl ketone.
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...) and other irritating gases.
<b>Flash Points</b>	The lowest known value is CLOSED CUP: -17.8°C (0°F). (Acetone)
<b>Flammable Limits</b>	LOWER: 0.5% UPPER: 12.8%
<b>Extinguishing Media</b>	Extremely flammable aerosol, liquid is miscible in water. SMALL FIRE: Use DRY chemicals, CO <sub>2</sub> or alcohol foam. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion. Self-contained respiratory protection should be provided for firefighters.
<b>Flammability</b>	The flammability of an aerosol by WHMIS definition is determined by its flame-extension or its flashback. The flame-extension of this product is greater than 45 cm. FIRE CODE: Level 3 Aerosol (as per NFPA 30B). Do not use in the presence of open flame or spark. Do not place in hot water or near radiators, stoves or other sources of heat.
<b>Risks of Explosion</b>	Risk of explosion of the product in presence of mechanical impact: Do not subject aerosol cans to impact. Risk of explosion of the product in the presence of static discharge: Aerosol spray may be sensitive to static discharge due to flammable concentrate and flammable propellant. Vapours of this product may form a flammable/explosive mixture with air in enclosed areas when vapours present are between the lower (0.5%) and upper (12.8%) flammable limits and come into contact with open flames, sparks or static discharge. Do NOT expose aerosol containers to open flames, heat or ignition sources. Container may explode if heated.

### Section 5. Reactivity

<b>Stability</b>	The product is stable.
<b>Hazardous Decomposition Products</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...) and other irritating gases.
<b>Degradability</b>	Not available.
<b>Products of Degradation</b>	Not available. Not available.
<b>Corrosivity</b>	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
<b>Reactivity</b>	Avoid contact with strong oxidizing agents, strong acids and strong alkalis. Keep away from heat, open flames and all sources of ignition.
<b>Instability Temperature</b>	Not available.

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Conditions of Instability No additional remark.

## Section 6. Toxicological Properties

**Routes of Entry** Ingestion. Inhalation. Skin contact. Eye contact.

**TLV**

**Ethyl Acetate**  
TWA: 400 (ppm)  
TWA: 1400 (mg/m<sup>3</sup>)

**Acetone**  
TWA: 750 (ppm)

**Methyl ethyl ketone**  
TWA: 200 CEIL: 300 (ppm)  
TWA: 590 CEIL: 885 (mg/m<sup>3</sup>)

**Methyl isobutyl ketone**  
TWA: 100 CEIL: 125 (ppm)  
TWA: 410 CEIL: 510 (mg/m<sup>3</sup>)

**Isopropyl alcohol**  
**TWA: 400 CEIL: 500 (ppm)**  
**TWA: 980 CEIL: 1225 (mg/m<sup>3</sup>)**

**Liquefied petroleum gas**  
**TWA: 1000 CEIL: 1250 (ppm)**  
**TWA: 1800 CEIL: 2250 (mg/m<sup>3</sup>)**

Consult local authorities for acceptable exposure limits.

**Toxicity to Animals** **WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.**

Acute oral toxicity (LD50): 9750 mg/kg [Rat] (Acetone).  
Acute oral toxicity (LD50): 1600 mg/kg (Guinea pig) (Methyl isobutyl ketone).  
Acute oral toxicity (LD50): 3600 mg/kg (Mouse) (isopropyl alcohol).  
Acute oral toxicity (LD50): 4100 mg/kg [Mouse] (Ethyl acetate).  
Acute oral toxicity (LD50): 2737 mg/kg [Rat] (Methyl ethyl ketone).  
Acute dermal toxicity (LD50): > 5000 mg/kg (Rabbit) (Methyl ethyl ketone).  
Acute dermal toxicity (LD50): 20000 mg/kg [Rabbit]. (Acetone).  
Acute toxicity of the vapor (LC50): 16000 ppm [Rat] (Acetone).  
Acute toxicity of the vapor (LC50): 16000 ppm (Rat) (isopropyl alcohol).  
Acute toxicity of the vapour (LC50): 2263 ppm [Rat] (Ethyl acetate).

**Chronic Effects on Humans** Prolonged or repeated skin contact may lead to dermatitis.

**Acute Effects on Humans**

**EYE CONTACT:** May cause irritation, redness and tearing.

**SKIN CONTACT:** May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.

**INHALATION:** Vapours may be irritating to the nose, throat and respiratory tract. Excessive inhalation of vapours may cause Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

**INGESTION:** May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.

Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact.

**Synergetic Products (Toxicologically)** Not available.



**Irritation/Corrosivity** Not available.

**Sensitization** Not available.

**Carcinogenic Effects** Not available.


**Toxic Effects on Reproduction** Not available.

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Teratogenic Effects	Not available.
Mutagenic Effects	Not available.

### Section 7. Preventive Measures

Small Spill and Leak	Ventilate area and eliminate all sources of ignition. Keep away from heat. Absorb with an inert DRY material and place in an appropriate waste disposal container.
Personal Protective Equipment	Safety glasses and gloves (chemical resistant). Be sure to use a MSHA/NIOSH approved respirator or equivalent when ventilation is inadequate.
	
Large Spill and Leak	Not applicable for aerosol containers.
Protective Clothing	Not applicable for aerosol containers.
Engineering Controls	Use under well-ventilated conditions.
Precautions	Contents under pressure. Container may explode if heated. Direct inhalation of spray may be harmful. Harmful or fatal if swallowed. Keep out of reach of children.
Storage	Keep in a cool, well-ventilated place. Keep away from heat, open flame, sparks and all other sources of ignition. Do not puncture, incinerate, store the container at temperatures above 50°C (122°F) or in direct sunlight.
Handling	DO NOT use in the presence of open flame or spark. Keep away from heat. Avoid breathing vapours or spray mists. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities. When container is empty, press button to release all pressure, then dispose of in garbage can.
Special Shipping Information	Not available.

### Section 8. First Aid

Eye Contact	Immediately flush eyes with running water for at least 15 minutes, occasionally lifting upper and lower eyelids. Get medical attention.
Skin Contact	Wash the affected areas thoroughly with soap and water. If irritation persists, get medical attention. Remove contaminated clothing and wash before reuse.
Hazardous Skin Contact	No additional information.
Slight Inhalation	Remove affected person to fresh air. If breathing is difficult, administer oxygen. If breathing stops give artificial respiration. Keep person warm, quiet and get medical attention.
Hazardous Inhalation	No additional information.
Slight Ingestion	If swallowed, call physician or poison control centre immediately. DO NOT induce vomiting. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal.
Hazardous Ingestion	No additional information.

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**Section 9. MSDS Preparation**

References Not available.

No additional remark.

Validated by Regulatory Affairs Dept. on 06/1/2012

**Emergency Phone: (905) 677-1948**

Responsible  
Name/  
Telephone No.

**Classification**

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Rail

Not applicable.

WHMIS WHMIS CLASS A: Compressed gas.  
WHMIS CLASS B-5: Flammable aerosol.  
WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).



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