

## MATERIAL SAFETY DATA SHEET

**Eco Solutions**  
1114 Lower Base Line  
Milton, Ontario  
LOP 1E0

**In Case of Emergency, Call**

**1 800 326-7658**

**Date of MSDS Preparation (mm/dd/yyyy)**

13/8/2009

**Superseded date (mm/dd/yyyy)**

16/7/2007

**MSDS Prepared By:**

T Vaccari

**For further information contact:**

905 864-8740

### Section 1 : Product Identification

**Product Identifier:**

FUSION

**Registration No.:**

Not Applicable

**Chemical Class:**

De-icing solution

**Synonym:**

**Active Ingredient (%)**

Degraded Sugar Beet Extract

**CAS NO.:** NA

**Chemical Name:**

**Product Use:**

Road De-icer

### Section 2 : Composition/Information on Ingredients

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	WHMIS
Water	None	None		No	NA
Sugar Beet Extract	None	None		No	NA

### Section 3 : Hazards Identification

**Symptoms of Acute Exposure:**

Generally not hazardous in normal circumstances. However, good practices should always be followed. Avoid excessive exposure to skin and eyes.

**Hazardous Decomposition Products:**

None known

**Physical Properties:**

Dark amber liquid with strong coffee odour.

**Unusual Fire, Explosion, & Reactivity Hazards:**

None

**Potential Health Effects:**

May cause mild irritation of the eyes with prolonged exposure. May cause irritation to exposed skin. May cause irritation to the respiratory tract.

## Section 4 : First Aid Measures

**Eye Contact:** Wash eyes with plenty of water for 15 minutes, lifting eyelids occasionally. Seek medical assistance if irritation develops and persists.

**Skin Contact:** Wash exposed area with soap and water. If any irritation persists, seek medical attention.

**Inhalation:** Remove to fresh air.

**Ingestion:** Give 3-4 glasses of water. If vomiting occurs, give fluids again. Get medical attention as evacuation of the stomach may be required.

**Note to Physician:**

**Medical Conditions Known To Be Aggravated:** Large amounts could aggravate Cardiovascular conditions

## Section 5 : Fire Fighting Measures

**Flash point & method:** NA

**Upper & lower flammable (explosive) limits in air:** NA

**Auto ignition temperature:** NA

**Hazardous combustion products:** None

**Conditions under which flammibility could occur:** None

**Extinguishing media:** This product does not burn until water content has evaporated. Use extinguishing media most appropriate for the surrounding fire.

**Sensitivity to explosion by mechanical impact:** None

**Sensitivity to explosion by static discharge:** None

## Section 6 : Accidental Release Measures

### Personal Precautions:

Avoid exposure to eyes and skin. Wear safety glasses or chemical goggles depending on risk of splashing the product into the eyes. Avoid skin exposure with gloves and clean body-covering clothing. Where there is a likelihood of product mist, the use of a NIOSH approved respirator is recommended.

### Procedures for dealing with release or spill:

Wear appropriate protective equipment. Mop up or wet-vac any spill for use as ice-melt. Dispose of any waste as required by local by-laws and Provincial Regulations.

## Section 7: Handling & Storage

### Handling Practices:

Avoid unnecessary exposures, especially to the eyes. Wear eye protection and wash exposed skin after handling the product. General ventilation is usually adequate for the handling of this product.

### Appropriate storage practices/requirements:

Store product in closed containers. Do not allow to freeze. Frozen product will expand and may cause damage to containers and/or pipe lines. Do not store with strong acids or bases.

### National Fire Code classification:

NONE

## Section 8 : Exposure Control/Personal Protection

### Applicable control measures, including engineering controls:

Generally, this is not hazardous material. Good hygiene practices, general ventilation and appropriate eye protection is adequate for most handling situations.

### Personal protective equipment for each exposure route:

#### General:

**Ingestion:** Use a face shield if pressurized splashes to the face are possible.

**Eyes:** Glasses with sideshields or chemical goggles as appropriate to the handling circumstances.

**Skin:** Rubber or neoprene gloves and clean body-covering clothing.

**Inhalation:** None normally required. If mist possible, a NIOSH approved respirator should be worn.

## Section 9 : Physical & Chemical Properties

<b>Appearance:</b>	Dark amber liquid	<b>Vapour Density:</b>	NA
<b>Formulation Type:</b>		<b>Boiling point:</b>	~ 100° C
<b>Odour:</b>	Coffee odour	<b>Melting point:</b>	
<b>pH:</b>	8-9	<b>Freezing Point:</b>	-38.9° C
<b>Vapour pressure and reference temp.:</b>	NA	<b>Specific gravity or density:</b>	~1.27
<b>Evaporation Rate:</b>	1 (Water=1)	<b>Viscosity:</b>	38 centipoise
<b>Odour threshold:</b>	None	<b>Solubility in Water:</b>	Infinite

## Section 10 : Stability & Reactivity

<b>Chemical stability:</b>	STABLE
<b>Conditions to avoid:</b>	None Known
<b>Incompatibility with other materials:</b>	Avoid strong acids or bases as heat will be generated. Boiling or spattering can occur.
<b>Hazardous decomposition products:</b>	None Known
<b>Hazardous polymerization:</b>	Could occur with addition of strong acids or bases generating extreme heat.

## Section 11 : Toxicological Information

### Acute toxicity/Irritation Studies (Finished Product )

<b>Ingestion:</b>	Not considered to be toxic.
<b>Dermal:</b>	Absorption can occur but it is not a likely route.
<b>Inhalation:</b>	May cause mild irritation of the respiratory tract.
<b>Eye Contact:</b>	May cause mild irritation.
<b>Skin Contact:</b>	May cause mild irritation in damaged skin.
<b>Skin Sensitization:</b>	None
<b>Reproductive/Development Effects:</b>	None of the ingredients of this product have been reported to cause birth defects.
<b>Carcinogenicity:</b>	Not listed by IARC, NTP, OSHA, NIOSH or California
<b>Other Toxicity Information:</b>	
<b>Target Organs:</b>	The cardiovascular system, gastrointestinal tract, eyes and skin. Extreme exposures could aggravate existing cardiovascular conditions.

## Section 12 : Ecological Information

### **Summary of Effects:**

There is no specific information available. Release of the product into the environment other than for approved uses should be avoided.

### **Eco-Acute Toxicity:**

No specific information

### **Eco-Chronic Toxicity:**

No specific information

### **Environmental Fate:**

No specific information

## Section 13 : Disposal Considerations

### Waste Disposal Information:

Spilled material should be collected whenever possible for use as an ice-melt. When this is not practical, absorb the material and shovel into containers. Label and dispose of the collected material according to Provincial Regulations.

## Section 14 : Transport information

### Shipping information such as shipping classification:

This product is not regulated for shipping in North America.

### Proper Shipping Name:

NONE

## Section 15 : Regulatory Information

### WHMIS Classification for product:

This product is not a controlled material.

### Canadian DSL

The ingredients in this product are on the Domestic Substance List.

## Section 16 : Other Information