

MATERIAL SAFETY DATA SHEET

Eco Solutions 1114 Lower Base Line Milton, Ontario **L0P 1E0**

Date of MSDS Preparation (mm/dd/yyyy) 10/11/2011

MSDS Prepared By:

T Vaccari

In Case of Emergency, Call

1 800 326-7658

Superceded date (mm/dd/yyyy)

8/13/2009

For further information contact:

905 864-8740

Section 1: Product Identification

Product Identifier: Registration No.: **Chemical Class:**

FUSION 2350 Not Applicable Salt solution

Synonym:

~12% Sodium Chloride Active Ingredient (%)

~50% Degraded Sugar Beet

CAS NO.: 7647-14-5

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
Sodium Chloride	None	None		No	NA
Water	None	None		No	NA
Degraded Sugar Beet	None	None		No	NA

Section 3: Hazards Identification

Symptons 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:

Light amber, liquid with 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 repiratory tract.

FUSION 2350

Section 4: First Aid Measures

Eye Contact: Wash eyes with plenty of water for 15 minutes, lifting eyelids occassionally. 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: Sodium chloride can aggrevate 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 flammibilty 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 googles 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.

Prodedures 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 pratices/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

Appearance: Dark amber liquid Vapour Denisty: NA
Formulation Type: Salt solution Boiling point: ~ 100° C

Odour: Coffee odour Melting point:

pH: 8 - 8.4 Freezing Point: - 27° C

Vapour pressure and Specific gravity or

reference temp.:

NA
Specific gravity of control of the control of

Evaporation Rate: 1 (Water=1) Viscosity: ~34 centipoise @ 0° C

Odour threshold: None Solubility in Water: soluble

Section 10 : Stability & Reactivity

Chemical stability: STABLE
Conditions to avoid: None Known

Incompatibility with other materials: Avoid strong acids or bases.

Hazardous decompostion products: None Known

Hazardous polymerization: Can occur with the addition of strong acids or bases generating

extreme heat.

Section 11 : Toxicological Information

Acute toxicity/Irritation Sudies (Finished Product)

Ingestion: Not considered to be very toxic. Most toxic component of this product is sodium chloride

(approximately 12%). See toxicity below. Large doses of sodium chloride could cause vomiting, diarrhea and prostration. Inflammatory reactions within the digestive tract are

also possible.

Sodium Chloride LD₅₀ (mouse) 4 gm/kg LD₅₀ (rat) 3 gm/kg

Dermal: Absorption can occur with similar effects as with ingestion.

Inhalation: May cause mild irritation of the respiratory tract.

Eye Contact: May cause mild irritation.

Skin Contact: May cause mild irritation in damaged skin.

Skin Sensitization: None

Reproductive/Development Effects: None of the ingredients of this product have been reported to cause

birth defects.

Carcinogenicity: Not listed by IARC, NTP, OSHA, NIOSH or California

Other Toxicity Information:

Target Organs: Cariovascular system, gastronintestinal tract, eyes and skin. Exposures could aggrevate

existing cardivascular 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. Large quantities could be hazardous to vegetation and aquatic life.

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