



# SAFETY DATA SHEET

## ESFR - FOG Reducer

### I. IDENTIFICATION

**GHS Product Identifier:** ESFR – FOG Reducer  
**Other means of identification:** Wastewater Treatment Solutions  
**Product Type:** Powder  
**Class:** 60 NON-HAZ  
**Application:** WWT – Fog Control  
**IHC:** 3402.20.51.00  
**Manufacturer Details:** Earth Smart Solutions  
130 – 60 Industry Way S.E.,  
Calgary, AB., CA. T3S 0A2  
**Toll Free:** 1-866-444-7174  
**Fax:** 403-264-9606  
**Email:** info@earth-smart-solutions.com

### II. HAZARD IDENTIFICATION

#### Classification of the substance or mixture



GHS07

Eye Irritation. Category 2A

H319 Causes serious eye irritation.

**GHS label elements:** the product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS07

**Signal word:** Danger

**Hazard statements:** H319 Causes serious eye irritation.

#### Precautionary statements

- Wash thoroughly after handling.
- Wear protective gloves/eye protection/face protection.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

### III. COMPOSITION

#### Chemical characterization: Mixture

Ingredient Name	%	CAS Number
Sulphamic Acid –  Acute tox. 4, H302; Skin Irrit. H315; Eye Irrit. 2A, H319	≥2.5-<10%	5329-14-6 EINECS: 226-218-8
Citric acid -  Eye Irrit. 2A, H319	≥2.5-<10%	77-92-9 EINECS: 201-069-1
Sodium Carbonate -  Eye Irrit. 2A, H319	≥2.5-<10%	497-19-8 EINECS: 207-838-8

#### Additional information:

The specific chemical identity and/or exact percentage composition has been withheld as a trade secret.

### IV. FIRST AID MEASURES

**Eye Contact:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause severe eye irritation, risk of serious eye lesions.

**First Aid:** Immediately flush eyes with cold water, continue to rinse for at least 15 minutes. Contact physician immediately.

**Recommended Precautions:** ANSI approved safety glasses with side protection. Avoid creating dust in an enclosed environment.

**Skin Contact:** Exposure may cause irritation if a person has a history of dermal allergic reaction.

**First Aid:** Remove contaminated clothing. Wash with soap and water. Wash clothing before reuse.

**Recommended Precautions:** Limit exposure.



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**Ingestion:** Severe irritation of the mouth, throat esophagus and stomach.

**First Aid:** Give two glasses of water to dilute product, DO NOT induce vomiting. Contact physician as required.

**Recommended Precautions:** Limit exposure, store in safe place.

**Inhalation:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause slight irritation of the nose, throat and lungs.

**First Aid:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. Contact physician as required.

**Recommended Precautions:** Use approved respiratory mask as required, avoid creating dust in non-ventilated areas.

**General Precautions:** No danger from handling water soluble pouches. Wash hands after handling free product.

### V. FIRE – FIGHTING MEASURES

**Extinguishing Media:** Water, foam, CO<sub>2</sub>, or dry chemical may be used. Fight larger fires with water spray or alcohol resistant foam.

**Unsuitable Extinguishing Media:** None known.

**Special hazard arising from the substance or mixture:** In a fire or if heated, a pressure increase will occur, and the container may burst.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### VI. ACCIDENTAL RELEASE MEASURES

#### Methods and materials for containment and cleaning up

**Small spills:** Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to authority requirements.

**Large spills:** Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to authority requirements. Check disposal regulations when disposing of large quantities.

#### **Reference to other sections:**

- See section 7 for information on safe handling
- See section 8 for information on personal protection equipment
- See section 13 for disposal information

### VII. STORAGE & HANDLING

**Storage:** Store in dry, cool, and well-ventilated area, and out of direct sunlight. Storage temperature should be between 41°F and 104°F (5°C and 40°C).

**Handling:** No special handling required.

**Advice on General occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

### VIII. EXPOSURE CONTROL

**Occupational exposure limits:** None

**Appropriate engineering controls:** Good general ventilation should be enough to control worker exposure to airborne contaminants

#### Individual protection measures

**Hand protection:** Chemical-resistant, Impervious gloves should be worn always when handling chemical products.

**Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risk involved.

**Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

**Respiratory protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.



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### IX. PHYSICAL / CHEMICAL PROPERTIES

Physical state:	Free Flowing Granular Powder
Color:	Beige
Odor:	None
Odor threshold:	Not determined
PH:	6.5 – 7.5 when mixed with water
Melting point:	Not determined
Boiling point:	Not determined
Flash Point:	None
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower and upper explosive:	Not determined
Vapor pressure:	Not applicable
Vapor density:	Not determined
Bulk density:	0.6 – 0.8 gr/cc
Solubility in water:	Disperses in water
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Flow time (ISO 2431):	Not determined

### X. STABILITY & REACTIVITY INFORMATION

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** Heat/Source of Heat, Water/Moisture, Acids, Bases, Reducing Agents, and Organic Materials

**Incompatible materials:** Acids or alkalis may inactivate product.

**Hazardous decompositions products:** Under normal conditions of storage and use, hazardous decompositions products should not be produced.

### XI. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Not available

**Primary irritant effect**

**on the skin:** No irritating effect.

**on the eye:** No irritating effect.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information**

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Specific target organ toxicity (single exposure):** Not available

**Specific target organ toxicity (repeated exposure):** Not available

**Aspiration hazard:** Not available

**Information on the likely routes of exposure:** Routes of entry anticipated: Oral, Dermal

Routes of entry not anticipated: Inhalation

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact:** No specific data

**Inhalation:** No specific data

**Skin contact:** No specific data

**Ingestion:** No specific data

**Delayed and immediate effect and chronic effects from short- and long-term exposure**

**Short term exposure:** Not available



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Long term exposure: Not available

Potential chronic health effects: Not available

### XII. ECOLOGICAL INFORMATION

**Toxicity**

**Aquatic toxicity:** No further relevant information available

**Persistence and degradability:** No further relevant information available

**Behavior in environmental systems**

**Bio accumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects:** No further relevant information available

### XIII. DISPOSAL INFORMATION

**Disposal Methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirement of all authorities with jurisdiction. Waste packaging should be recycled.

### XIV. TRANSPORT CONSIDERATIONS

	TDG Classification	DOT Classification	ADR/RID	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Un proper shipping name	-	-	-	-	-
Transport Hazard Class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental Hazards	No	No	No	No	No

**Special precautions for user:** Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### XV. REGULATORY INFORMATION

**Canadian lists**

**Canadian NPRI:** None of the components are listed

**CEPA Toxic substance:** None of the components are listed

**International regulations**

**Chemical Weapon Convention List schedules I, II, & III Chemicals:** Not listed

**Montreal Protocol (Annexes A, B, C, E):** Not listed

**Stockholm Convention on Persistent Organic Pollutants:** Not listed

**Rotterdam Convention on Prior Informed Consent (PIC):** Not listed

**UNECE Aarhus Protocol on POPs and Heavy Metals:** Not listed

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3, 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.



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### XVI. OTHER INFORMATION

**Information sources:**

Suppliers MSDSs, DSL, TSCA, EPA, IARC, NTP, OSHA.

**Prepared By:**

SDS Coordinator

**Date:**

February 15, 2018 - Last Rev: August 28, 2019

**Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bio accumulative and Toxic  
vPvB: very Persistent and very Bio accumulative