



# SAFETY DATA SHEET

## ESCF – Cationic Flocculent

### I. IDENTIFICATION

<b>GHS Product Identifier:</b>	ESCF – Cationic Flocculent
<b>Other means of identification:</b>	Not Available
<b>Product Type:</b>	Powder
<b>Application:</b>	Wastewater Treatment
<b>IHC:</b>	3402.20.51.00
<b>Manufacturer Details:</b>	Earth Smart Solutions 10, 5081 Hwy 549 W DE Winton, AB T0L 0X0
<b>Toll Free:</b>	1-866-444-7174
<b>Fax:</b>	403-264-9606
<b>Email:</b>	info@earth-smart-solutions.com

### II. HAZARD IDENTIFICATION

#### Classification of the substance or mixture



GHS03 Flame over circle

Oxidizing Solids – Category 2

H272 May intensify fire, oxidizer.

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

#### Hazard pictograms



GHS03

**Signal word:** Warning

**Hazard statements:** H272 May intensify fire; oxidizer.

#### Precautionary statements

- Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- Keep away from clothing and other combustible materials.
- Wear protective gloves/protective clothing/eye protection/face protection.
- In case of fire: Use for extinction: CO<sub>2</sub>, powder, or water spray.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

### III. COMPOSITION

#### Chemical characterization: Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:** Void

**Additional information:** The specific chemical identity and/or exact percentage composition has been withheld as a trade secret. **ESCF** is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. **ESCF** does NOT contain synthetic chemicals, animal components, animal by-products, manure, or manure by-products. **ESCF** is environmentally safe and is not harmful to animals, plants or humans.

### 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.

**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.



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**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

**Special Fire Fighting Procedures:** None – Product isn't flammable and can be quickly diluted with clean water.

**Special Fire Hazards Procedures:** Oxidizing substance that causes exothermic reactions with organic materials.

### VI. ACCIDENTAL RELEASE MEASURES

**Small Spill:** Move containers from spill area. Vacuum or sweep up material and place it in a designated, labeled waste container.

**Large Spill:** Move containers from spill area. Vacuum or sweep up material and place in a designated labeled waste container. Avoid creating dusty conditions and prevent wind dispersal.

**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

**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.

### IX. PHYSICAL / CHEMICAL PROPERTIES

<b>Physical state:</b>	Free-flowing Liquid
<b>Color:</b>	Brown
<b>Odor:</b>	Yeast like odor
<b>Odor threshold:</b>	115
<b>PH:</b>	6.0 to 7.0 when mixed with water
<b>Melting point:</b>	Not determined
<b>Boiling point:</b>	Not determined
<b>Flash Point:</b>	None
<b>Evaporation rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not determined
<b>Lower and upper explosive:</b>	Not determined
<b>Vapor pressure:</b>	Not determined
<b>Vapor density:</b>	Not determined



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<b>Bulk density:</b>	0.6 - 0.8 gr/cc
<b>Solubility:</b>	99.9% Water
<b>Solubility in water:</b>	Moderate - disperses in water
<b>Partition coefficient: n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity (25C, cps):</b>	300 - 600
<b>Flow time (ISO 2431):</b>	Not determined

### X. STABILITY & REACTIVITY INFORMATION

**Reactivity:** No further relevant information available.  
**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 shouldn't be produced.

### XI. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**  
**Primary irritant effect:** on the skin = No irritant effect.  
**Additional toxicological information**  
**Carcinogenic categories**  
**IARC (International Agency for Research on Cancer)**  
**NTP (National Toxicology Program) :** None of the ingredients is listed.

### 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.  
**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
<b>UN Number</b>	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>Un proper shipping name</b>	-	-	-	-	-
<b>Transport Hazard Class(es)</b>	-	-	-	-	-
<b>Packing group</b>	-	-	-	-	-
<b>Environmental Hazards</b>	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.



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### XV. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**Sara**

**SARA Section 355 (extremely hazardous substances):** None of the ingredients is listed.

**SARA Section 313 (specific toxic chemical listings):** None of the ingredients is listed.

**TSCA (Toxic Substances Control Act) (Substances not listed):** All ingredients are listed.

**Canadian substance listings**

**Canadian Domestic Substances List (DSL) (Substances not listed):** All ingredients are listed.

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

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

### XVI. OTHER INFORMATION

**Information Sources:**

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

**Prepared By:**

SDS Coordinator

**Date:**

February 15, 2018 - Last Rev: July 2023

**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