



SAFETY DATA SHEET

ESAE – Natural Aquatics Cleaner and Conditioner

I. IDENTIFICATION

GHS Product Identifier:	ESAE – Natural Aquatics Cleaner & Conditioner
Other means of identification:	Aquatics Solutions
Product Type:	Powder
Application:	Pond Cleaner & Clarifier
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:



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:

Danger

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: CO2, 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. **ESAE** 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. **ESAE** does NOT contain synthetic chemicals, animal components, animal by-products, manure or manure by-products. **ESAE** is environmentally safe and is not harmful to animals, plants or humans.



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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.

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.

Most important symptoms and effects, both acute and delayed: The symptoms and effects are as expected from the hazards shown in section 2. No specific product related symptoms are known. No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

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.

Advice for firefighters: Self-contained breathing apparatus

Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.

VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.

Environmental precautions: No special precautions required

Methods and material for containment and cleaning up: Pick up mechanically.

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.



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VII. STORAGE & HANDLING

Storage: Store in dry, cool, and well-ventilated area, and out of direct sunlight. Storage temperature should be between 41 degrees F and 104 degrees F (5 C and 40 C). Do not store together with acids.

Storage class 5.1 B

Handling: No special handling required. Ensure good ventilation/exhaustion at the workplace.

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

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure controls: Use local exhaust ventilation to control airborne concentrations below exposure limits.

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.

General protective and hygienic measures: Wash hands before breaks and at the end of work.

IX. PHYSICAL / CHEMICAL PROPERTIES

Physical state:	Granulate
Color:	Beige with black & white granules
Odor:	Yeast Like Odor
Odor threshold:	Not determined
PH:	9.0 to 10.5 (1% solution in water)
Melting point:	Undetermined
Boiling point:	Undetermined
Flash Point:	Not applicable
Flammability (solid, gas):	Not determined
Lower and upper explosive:	Not determined
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Bulk density at 20°C:	0.5 - 0.61 g/cm ³
Solubility in water:	Moderate - disperses in water
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Product is not self igniting
Decomposition temperature:	Not determined



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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. No dangerous reactions know.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: No further relevant information available.

Hazardous Decompositions Products: No dangerous decomposition products know.

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)

61790-53-2	Diatomaceous Earth	3
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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
UN Number	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Un proper shipping name	-	-	-	-	-



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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

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:

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

XVI. OTHER INFORMATION

Information sources: Suppliers MSDSs, DSL, TSCA, EPA, IARC, NTP, OSHA.

Prepared By: SDS Coordinator

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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