



SAFETY DATA SHEET

ESAT – Aquatic Tint

I. IDENTIFICATION

GHS Product Identifier:	ESAT – Aquatic Tint - Liquid
Other means of identification:	Aquatic Solutions
Product Type:	Liquid
Application:	Black & Blue Dye
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:

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

Hazard pictograms

Signal word: Danger

Hazard statements:

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

IV. FIRST AID MEASURES

Eye Contact: May cause irritation. Contact lenses should not be worn when working with chemicals.

First Aid: Immediately flush eyes with water, continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Recommended Precautions: Wear appropriate safety goggles and limit exposure.

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

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



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Recommended Precautions: Limit exposure.

Ingestion: Considered non-toxic but may lead to nausea or diarrhea.

First Aid: Wash out mouth with water. If material has been swallowed, give two glasses of water to dilute product, do not induce vomiting. Contact physician immediately.

Recommended Precautions: Store in safe place. Wear protective mask.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause 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.

Recommended Precautions: Avoid creating dust in non-ventilated areas.

General Precautions: 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.

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.

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.



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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:	Liquid
Color:	Black or Blue
Odor:	No Odour
Odor threshold:	Not determined
PH:	6.0 to 7.0 when mixed with water
Melting point:	Not determined
Boiling point:	100 deg C (212 deg F)
Flash Point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Not applicable
Lower and upper explosive:	Not determined
Vapor pressure:	Not determined
Vapor density:	Not determined
Relative density:	0.6 - 0.8 gr/cc
Solubility:	Not determined
Solubility in water:	Complete
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. Precautions to be taken in handling and storage: Store between 32°F & 120°F.

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

Conditions to avoid: Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Incompatible materials: Oxidizing and reducing agents, acids, lithium, and bromine trifluoride.

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

XI. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Primary irritant effect: on the skin = No irritant effect.



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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
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

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.



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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 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