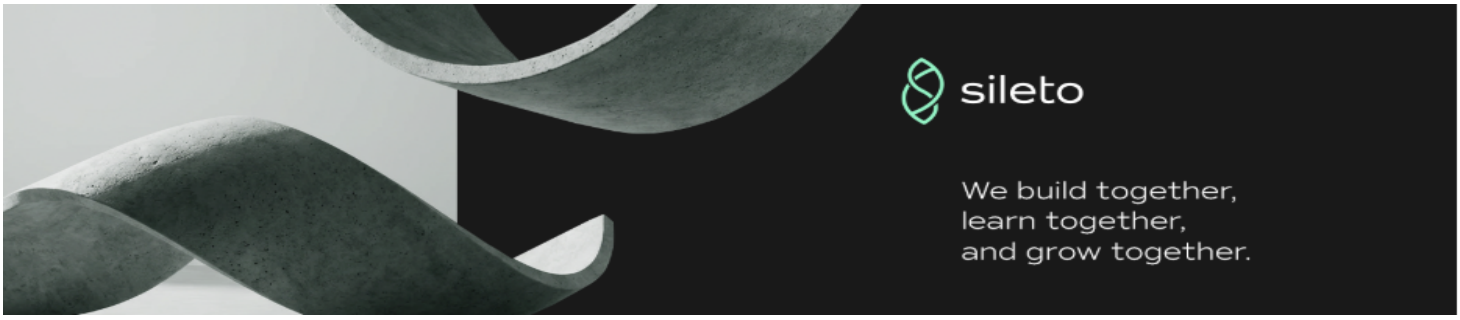

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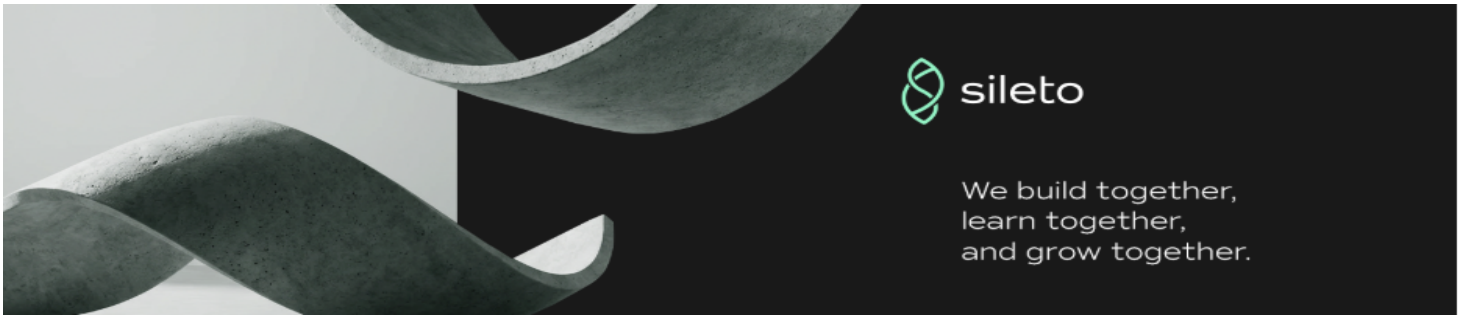
Safety Data Sheet SILETO ADARA BINDER

Section 1. Identification

Product Name	Sileto Adara Binder
Product Category	Polyester Resin Solution
Recommended Use	Used in the manufacture of polymer concrete
Supplier	Sileto Technologies 16495 NW 49th Ave, Hialeah, FL 33014 Website: sileto.com
Emergency Contact	CHEMTREC US (24h): +1-800-424-9300 CHEMTREC WORLD (24h): +1-703-527- 3887

Section 2. Hazards Identification

OSHA/HCS Status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
GHS Classification	FLAMMABLE LIQUIDS: Category 3 – H226 ACUTE TOXICITY (Inhalation): Category 4 – H332 SKIN IRRITATION: Category 2 – H315 EYE IRRITATION: Category 2A – H319 CARCINOGENICITY: Category 2 – H351 REPRODUCTIVE TOXICITY: Category 2 – H361d SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Category 3 – H335 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Category 1 – H372 ASPIRATION HAZARD: Category 1 – H304
Signal Word	Danger
Hazard Statements	H226: Flammable liquid and vapor. H332: Harmful if inhaled. H315: Causes skin irritation. H319: Causes serious eye irritation. H351: Suspected of causing cancer. H361d: Suspected of damaging the unborn child. H304: May be fatal is swallowed and enters airways.



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	H335: May cause respiratory irritation. H372: Causes damage to organs through prolonged or repeated exposure (hearing organs, kidneys).
Precautionary Statements	**General** P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children.
	Prevention P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting/material-handling equipment. P242: Use non-sparking tools. P243: Take action to prevent static discharges. P260: Do not breathe vapor or mist. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P260: Do not breathe vapor or mist. P272: Contaminated work clothing must not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection.
	Response P314: Get medical attention if you feel unwell. P308+P313: IF exposed or concerned: Get medical attention. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or physician if you feel unwell. P370+P378: In case of fire: Use dry chemical, CO_2, water spray (fog) or foam. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P332+P313: If skin irritation occurs: Get medical attention.

	P362+P364: Take off contaminated clothing and wash it before reuse. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.
	Storage P405: Store locked up. P403+P235: Store in a well-ventilated place. Keep cool. P233: Keep container tightly closed.
	Disposal P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Hazards not otherwise classified: None known.
Hazard pictograms:	

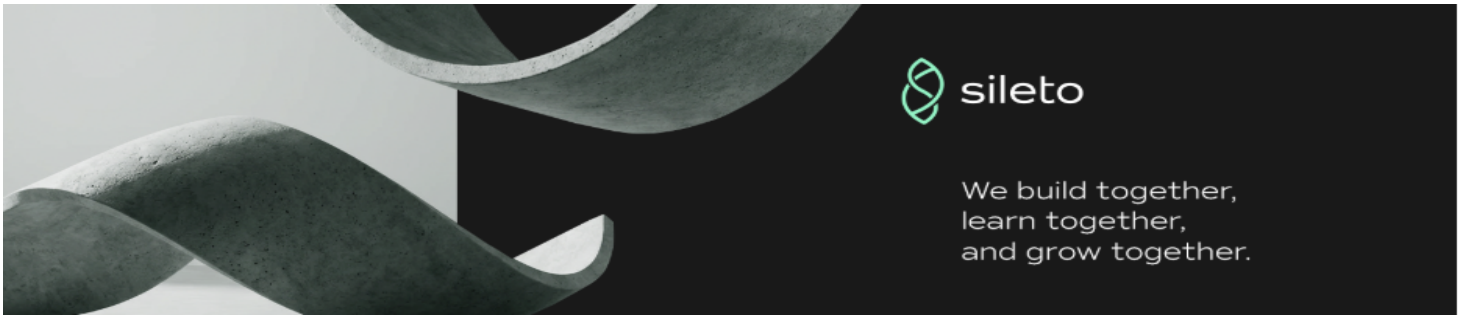
Section 3. Composition/Information on Ingredients

Ingredient Name	CAS Number	Weight %
Styrene	100-42-5	40.0-50.0

(Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.)

Section 4. First-Aid Measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.



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Section 5. Fire-Fighting Measures

Suitable Extinguishing Media	Water spray (fog), alcohol-resistant foam, dry chemical, or carbon dioxide (CO_2).
Specific Hazards	Combustible liquid. Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the ground to an ignition source.
Special Protective Equipment	Wear self-contained breathing apparatus (SCBA) and full protective gear.

Section 6. Accidental Release Measures

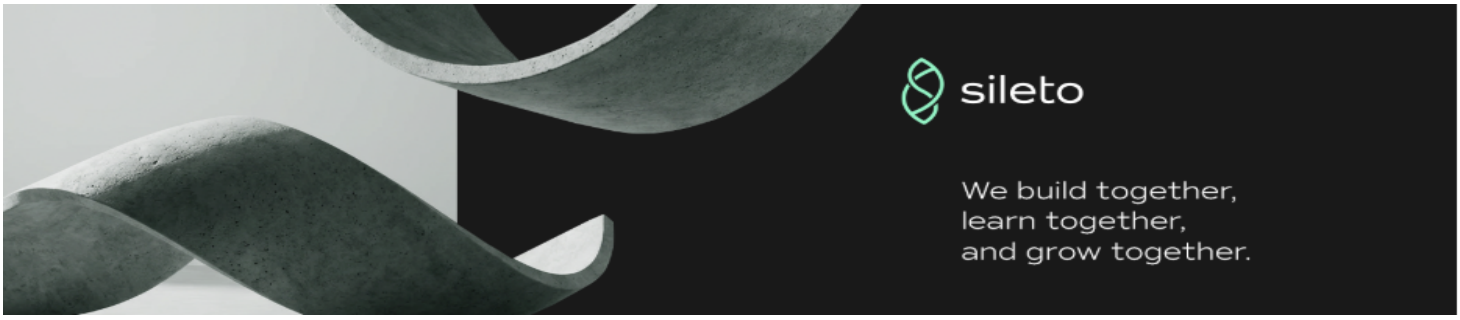
Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains, waterways, or soil.

Section 7: Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. Take measures to prevent the buildup of electrostatic charge.
Storage	Keep the container tightly closed in a dry, cool, and well-ventilated place.

Section 8: Exposure Controls / Personal Protection

Engineering Controls	Use local exhaust ventilation
Personal Protective Equipment (PPE) 	**Eye/Face:** Tightly fitting safety goggles and face shield.
	Skin: Chemical-resistant, impervious gloves (e.g., nitrile or butyl rubber). Complete suit protecting against chemicals.
	Respiratory: Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination cartridges.
Hygiene Measures 	Wash hands after handling; do not eat, drink, or smoke in work areas.



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Section 9: Physical and Chemical Properties

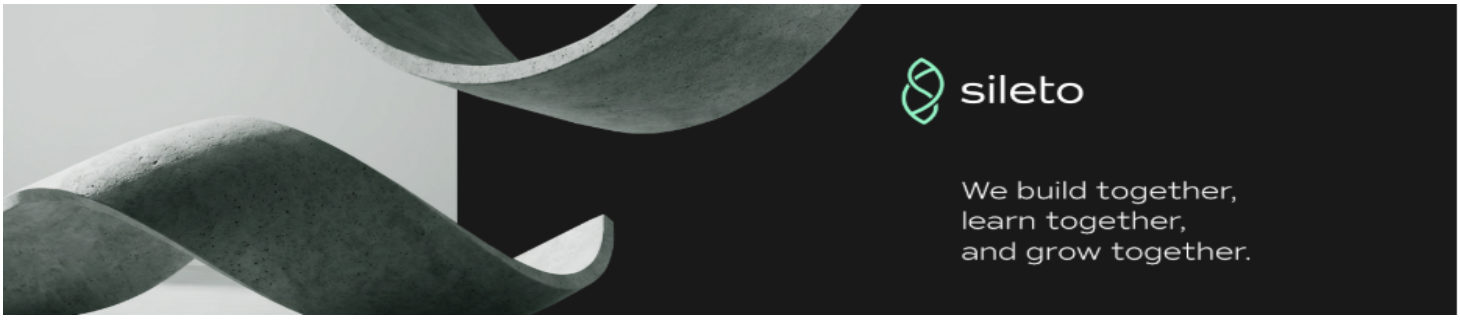
Appearance	Brown liquid
Odor	Aromatic
Specific Gravity (@ 20°C)	0.9 – 1.1
Melting Point	30.6°C (Styrene)
Boiling Point	145°C (Styrene)
Flash Point	31°C (Styrene)
Auto-ignition Temperature	490°C (Styrene)
Vapor Pressure	5mmHg@ 20°C (Styrene)
Viscosity	30 – 60 cp

Section 10: Stability and Reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization may occur if exposed to excessive heat, free radical initiators, or peroxides.
Conditions to Avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing material
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Acute Toxicity	May be harmful if swallowed or absorbed through the skin.
Skin Corrosion/Irritation	Causes severe skin burns.
Serious Eye Damage/Irritation	Causes serious eye damage; risk of blindness.
Respiratory or Skin Sensitization	May cause respiratory tract irritation.



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Section 12: Ecological Information

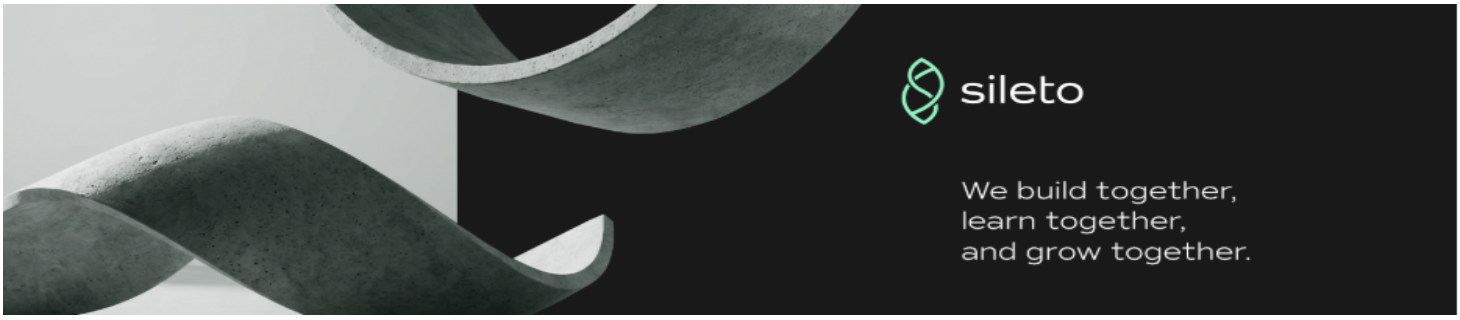
Toxicity Styrene	**Acute - LC50 - Fresh water** Fish - Fathead minnow - Pimephales promelas Age: 30 days; Size: 19 mm; Weight: 0.101 g 4020 µg/l [96 hours] Effect: Mortality **Acute - EC50 - Fresh water** Daphnia - Water flea - Daphnia magna Age: ≤24 hours 4700 µg/l [48 hours] Effect: Mortality **Acute - EC50 - Fresh water** Algae - Green algae - Raphidocelis subcapitata 720 µg/l [96 hours] Effect: Population **Chronic - NOEC - Fresh water** Algae - Green algae - Raphidocelis subcapitata 63 µg/l [96 hours] Effect: Population		
Ecotoxicity	Avoid release into the environment. The proprietary monomer is known to be harmful to aquatic life.		
Persistence & Degradability	No data is available.		
Bioaccumulative Potential Styrene	**$LogP_{ow}$** 2.96	**BCF** 13.49	**Potential** Low

Section 13: Disposal Considerations

Waste Disposal Method	Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Do not dispose of untreated material into sewers or waterways.
Contaminated Packaging	Dispose of as unused product. Empty containers may retain product residues.

Section 14: Transport Information

UN Number	UN 1866
Proper Shipping Name	RESIN SOLUTION



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Transport Hazard Class(es)	3 
Packing Group	III
Environmental Hazards	Not classified as a Marine Pollutant.
Special Precautions for user	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

Section 15: Regulatory Information

TSCA	All components are listed on or exempt from the TSCA Inventory.
SARA 311/312	No chemicals in this material are subject to the reporting requirements.
SARA 313	Form R – Reporting requirements: styrene CAS number 100-42-5
California Prop. 65	WARNING: This product can expose you to chemicals including Styrene and α-Methyl styrene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Section 16: Other Information

Preparation Date	October 30, 2026
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release.