

Marlen Textiles

Safety Data Sheet

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1. PRODUCT AND COMPANY IDENTIFICATION

Company

Marlen Textiles
500 Orchard Street
New Haven, MO 63068

Customer Service/Technical Support Number: (573) 237-4444
(Monday through Friday, 8AM to 4:30PM CST)

Emergency Information

CHEMTREC (800) 424-9300

Product Information

Product Name: Aqua-Tite Green
Product Use: Water Repellant – Post Treatment

2. HAZARDS IDENTIFICATION

Health Hazard:

Provide good ventilation when handling this product. Combustible liquid.

HMIS Rating:

Health = 1 Flammability = 2 Reactivity = 0 Personal Protection = B

Eyes:

May cause temporary redness, irritation and discomfort upon direct contact. Vapor may cause eye irritation.

Skin:

No toxicity issues from single short term exposure, prolonged exposure may cause moderate irritation, long term repeated exposure may cause dermatitis. Persons with pre-existing skin conditions should avoid contact.

Inhalation:

Handle in accordance with good industrial hygiene and safety practice. Long term repeated exposure may cause irritation to the nose, throat, and lungs.

Ingestion:

Low ingestion hazard based on normal recommended use.

3. COMPOSITION/INFORMATION ON COMPONENTS

Component	CAS Number	Weight %
Petroleum Distillates	64742-47-8	<10.0
Decamethylcyclpentasiloxane	541-02-06	>50.0
2-Ethylhexyl Titanate	1070-10-6	1.0-3.0
Trimethylated Silica	68988-56-7	1.0-3.0
Citrus Terpenes	94266-47-4	<2.0
Xylene	1330-20-7	0.5-1.0
Ethylbenzene	100-41-4	<0.4

When used for its intended purpose, this material is classified as hazardous under Federal OSHA 29 CFR 1910.1200 regulations. This SDS contains valuable information critical to the safe handling and proper use of this product. The SDS should be retained and available for employees and other users of this product.

4. FIRST AID MEASURES

Handle in accordance with good industrial hygiene and proper ventilation safety practices. Avoid prolonged exposure to skin and breathing of vapors, fumes, dust, or mist. The use of personal protective equipment such as chemical protective gloves and face protection are recommended for handling this product. Consult with your personnel protective equipment manufacturer for selection of appropriate compatible materials.

General Information**Skin:**

In case of skin contact, flush area with warm water for a minimum of 15 minutes. Remove contaminated clothing and wash accordingly before reuse.

Eyes:

Flush eyes thoroughly with flowing water for a minimum of 15 minutes. If irritation persists, seek medical attention.

Ingestion:

If swallowed, rinse mouth with plenty of water. Seek medical attention immediately. DO NOT induce vomiting. DO NOT administer anything by mouth to an unconscious person. DO NOT leave victim unattended.

Inhalation:

If inhaled, remove victim to fresh air. If symptoms persist, seek medical attention.

5. FIREFIGHTING MEASURES

Flash point: 155-160°F Combustible Liquid

Auto-ignition temperature: No applicable information is available

Flammable limits in air: Lower Limit: 0.7%

Extinguishing media (suitable):

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

Protective equipment:

Fire fighters and others exposed to products of combustion should wear full fire turn out gear and self-contained breathing apparatus (pressure demand/NIOSH approved or equivalent).

Unusual fire hazards:

Vapors are combustible and heavier than air and can travel. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions:

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 5 and 8.

Measures for environmental protection:

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain federal and state requirements.

7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practices. Use with adequate ventilation. Avoid eye exposure. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed and tightly sealed.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame. Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous component exposure limits:

	OSHA PEL	ACGIH TLV	NOISH PEL
Ethylbenzene	TWA 100ppm STEL 125ppm	TWA 20ppm STEL 125ppm	TWA 100ppm STEL 125ppm
Xylene	TWA 100 ppm STEL 150ppm Ceiling 300ppm	TWA 100 ppm STEL 150ppm	TWA 100ppm STEL 150 ppm

The above components are hazardous as defined in 29 CFR 1910.1000.

Engineering controls:

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal protective equipment for routine handling:

Eyes: Use proper protection- safety glasses as a minimum.
Skin: Washing at mealtime and end of shift is adequate.
Suitable Gloves: Chemical resistant gloves are recommended for use.
Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Suitable Respirator: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact Marlen Textiles customer service.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Clear to pale yellow
Odor:	Mild solvent odor
pH:	No applicable information is available
Flash point:	155-160°F (Closed-Cup Method)
Boiling point:	>350°F

Melting point (°C):	No applicable information is available
Solubility:	Insoluble in water
Specific gravity @ 25°C:	0.930
Density (lbs/gal):	7.760
Vapor pressure:	No applicable information is available
Vapor density:	Heavier than Air
Partition coefficient (n-octanol/water):	No applicable information is available
Auto-ignition temperature:	No applicable information is available
Flammable limits in air:	Lower limit 0.7%
Evaporation rate:	Slower than ether
Viscosity:	Water thin
VOC:	<10%

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	Avoid heat, open flames, sparks or any source of ignition.
Materials to Avoid:	Oxidizing agents and strong acids.

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, and formaldehyde.

11. TOXICOLOGICAL INFORMATION

Component toxicological information:

Ethylbenzene respiratory effects, such as throat irritation and chest constriction, irritation of the eyes, and neurological effects such as dizziness, have been noted from acute inhalation exposure in humans. Animal studies have reported central nervous system (CNS) toxicity; pulmonary effects; and effects on the liver, kidney, and eyes (irritation) from acute inhalation exposure to ethylbenzene. Animal studies have reported developmental effects, such as fetal resorptions, retardation of skeletal development, and an increased incidence of extra ribs in animals exposed to Ethylbenzene via inhalation.

Chronic exposure of humans to mixed xylenes, as seen in occupational settings, has resulted primarily in neurological effects such as headache, dizziness, fatigue, tremors, incoordination, anxiety, impaired short-term memory, and inability to concentrate. Labored breathing, impaired pulmonary function, increased heart palpitation, severe chest pain, abnormal EKG, and possible effects on the kidneys have also been reported. Acute exposure to mixed xylenes in humans has been associated with dyspnea and irritation of the nose and throat; gastrointestinal effects such as nausea, vomiting, and gastric discomfort; mild transient eye irritation; and neurological effects such as impaired short-term memory, impaired reaction time, performance decrements in numerical ability, and alterations in equilibrium and body balance.

Special hazard information on components:

Carcinogens

CAS Number	Wt %	Component Name
100-41-4	<0.4%	Ethylbenzene

Developmental Toxicity

CAS Number	Wt %	Component Name
1330-20-7	0.5 – 1.0	Xylene

12. ECOLOGICAL INFORMATION

Environmental fate and distribution:

Air: Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere.

Water: Low molecular weight volatile siloxanes have very low water solubility and evaporate to air.

Soil: Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilization, hydrolysis, and clat-catalyzed degradation.

Environmental Effects:

Toxicity to Water Organisms: This product is volatile and has a very short half-life in the aquatic environment and therefore does not present a risk to aquatic organisms.

Toxicity to Soil Organisms: Due to its volatility, this product is unlikely to be found in the terrestrial compartment.

Bioaccumulation: Low molecular weight volatile siloxanes bio concentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.

Fate and Effects in Waste Water Treatment Plants:

Low molecular weight volatile siloxanes are efficiently removed (>90%) during wastewater treatment with approximately equal amounts going to the atmosphere and the sludge. Low molecular weight volatile siloxanes in treated wastewater effluent will be bound to particulate matter because of very low water solubility.

Ecotoxicity Classification Criteria:

Hazard Parameters (LC50 or EC 50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100

Acute Terrestrial Toxicity <=100 >100 and <=2000 >2000

This table is adapted from “Environmental Toxicology and Risk Assessment”, ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

State or local laws may impose additional regulatory requirements regarding disposal.

Empty Container Warning: (where applicable) Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. **DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.**

14. TRANSPORT INFORMATION

DOT Road Shipment (49 CFR 172.101)

Proper Shipping Name: Combustible liquid, n.o.s.
Hazard Technical Name: Combustible liquid
Hazard Class: 3
UN/NA Number: NA 1993
Packing Group: III
Hazard Label(s): None

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200

Supplemental State Compliance Information:

California Prop 65: This product contains chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. MARLEN TEXTILES, INC. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Marlen Textiles product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a Marlen Textiles product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the Marlen Textiles product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.