

Safety Data Sheet

Version: 006
Issued on: 4.20.12
Revised on: 3.2.18

Copyright, 2015, Marlen Textiles, Inc. ("Marlen Textiles"). All rights reserved. Copying and/or downloading of this information for properly utilizing Marlen Textiles products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from Marlen Textiles, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

1. Identification

Product identifier	Aqua-Tite® Green or SPG
Other means of identification	
Compound number	400C
Synonyms	Water repellent
Recommended use	Post treatment
Recommended restrictions	Use in accordance with manufacturer's recommendations.

Manufacturer/Supplier/Distributor information

Company name	Marlen Textiles
Address	500 Orchard Street New Haven, Missouri 63068
Telephone	(573)-237-4444 (Monday through Friday, 8AM to 4PM CST)
Website	www.marlentextiles.com
Emergency number	CHEMTREC (800) 424-9300

2. Hazard(s) identification

GHS Classification in accordance with 29 CFR 1910.1200

Flammable Liquid	: Category 4
Eye Irritation	: Category 2B
Specific target organ	: Category 3
Systemic toxicity – single exposure	
Specific target organ	: Category 2 (Central nervous system, Liver, Kidney, Auditory system)
Systemic toxicity – repeated exposure	

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard(s) Statement : H227 Combustible liquid
H320 Causes eye irritation
H335 May cause respiratory irritation
H373 May cause damage to organs (Central nervous system, Liver, Kidney, Auditory system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge.
P261 Avoid breathing spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/container to an approved waste Disposal plant

Other hazards

Vapors may form explosive mixture with air.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Petroleum Distillates	64742-47-8	<10.0
Decamethylcyclopentasiloxane	541-02-06	75.0-85.0
Titanium tetrakis(2-ethylhexanolate)	1070-10-6	1.5-2.5
Tris (2-ethylhexyl) isopropyl titanate	106193-76-4	<0.4
d-Limonene	5989-27-5	<2.0
Xylene	1330-20-7	0.3-0.8
Ethylbenzene	100-41-4	<0.4

Composition comments

When used for its intended purpose, this material is classified as not 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

Inhalation	Vapors may irritate the respiratory system. Remove person to fresh air and keep under observation. If symptoms persist, seek medical attention.
Skin contact	Rinse area with water for a minimum of 15 minutes. Remove contaminated clothing and wash accordingly before reuse. Get medical attention if irritation develops or persists.
Eye contact	Do not rub eyes. Flush eyes thoroughly with flowing water for a minimum of 15 minutes. If easy to do remove contact lens, if worn. 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.
Most important symptoms/ effects, acute and delayed	Vapors may irritate the respiratory system. May cause eye irritation
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media	Water spray Alcohol-resistant foam Carbon Dioxide (CO ₂) Dry Chemical
Unsuitable extinguishing Media	High-volume water jet
Specific hazards during firefighting	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air.
Hazardous combustion Products	Carbon oxides Silicon oxides Formaldehyde Metal oxide Chlorine compounds

Specific extinguishing methods	<p>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> <p>Use water spray to cool unopened containers.</p> <p>Remove undamaged containers from fire area if it is safe to do so</p> <p>Evacuate area.</p>
Special protective equipment for firefighters	<p>Wear self-contained breathing apparatus for firefighting if necessary.</p> <p>Use personal protective equipment</p>

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	<p>Remove all sources of ignition.</p> <p>Use personal protective equipment.</p> <p>Follow safe handling advice and personal protective equipment recommendations.</p>
Environmental precautions	<p>Discharge into the environment must be avoided.</p> <p>Prevent further leakage or spillage if safe to do so.</p> <p>Prevent spreading over a wide area (e.g., by containment or oil barriers).</p> <p>Retain and dispose of contaminated wash water.</p> <p>Local authorities should be advised if significant spillages cannot be contained.</p>
Methods and materials for containment and clean up	<p>Non-sparking tools should be used</p> <p>Sock up with inert absorbent material</p> <p>Suppress (knock down) gases/vapors/mists with water spray jet.</p> <p>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.</p> <p>Clean up remaining materials from spill with suitable absorbent.</p>

7. Handling and storage

Precautions for safe handling	<p>Handle in accordance with good industrial hygiene and safety practices.</p> <p>Use with adequate ventilation.</p> <p>Avoid eye exposure.</p> <p>Avoid skin contact.</p> <p>Avoid breathing vapor, mist, dust, or fumes.</p> <p>Keep container closed and tightly sealed.</p>
-------------------------------	---

Hand	Use good industrial hygiene practices to minimize skin contact. Use chemical resistant gloves. Washing hands before breaks and at the end of the work day.
Other	Appropriate work clothing is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits or to an acceptable level an approved respirator must be worn. Follow OSHA respirator protection program requirements (OSHA 1910.134) for all respirator usage. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure.
General hygiene	Observe good personal hygiene measures, such as washing after handling chemicals and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash.
General information	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

Appearance	Liquid
Color	Clear to pale yellow
Odor	Mild solvent odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	>350°F
Flash point	155-160°F
Evaporation Rate	Slower than ether
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	0.7
Flammability limit – upper (%)	No data available
Explosive limit – lower (%)	No data available
Explosive limit – upper (%)	No data available
Vapor pressure	No data available
Vapor density	Heavier than air
Relative density	0.930 (H ₂ O=1)
Solubility(ies)	Insoluble in water
Partition coefficient (n-octanol/water)	No data available
Auto-ignition temperature	No data available

Decomposition temperature	No data available
Viscosity	Water thin
Other information	
Density	7.760 lbs/gal
VOC (Wt %)	<10

10. Stability and reactivity

Reactivity	Not available
Chemical stability	Compound is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, open flames, sparks or any source of ignition.
Incompatible materials	Oxidizing agents, water and strong acids
Hazardous decomposition	Formaldehyde 2-Ethylhexan-1-ol Propan-2-ol

11. Toxicological information

Information on likely routes of exposure

Inhalation	Vapors may irritate the respiratory system.
Ingestion	Ingestion may cause irritation and stomach discomfort.
Skin contact	Prolonged or repeated contact may cause irritation.
Eye contact	Direct contact may cause irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Vapors may irritate the eyes, throat and respiratory system causing sneezing and/or coughing.
Toxicological effects	

Acute toxicity

Not classified based on available information.

Ingredients:

Decamethylcyclopentasiloxane	
Acute oral toxicity	LD50 (Rat): > 24,134 mg/kg Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	LC50 (Rat): 8.67 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on test data
Xylene	
Acute oral toxicity	LD50 (Rat): 4,300 mg/kg Method: Directive 67/548/EEC, Annex V, B.1.
Acute inhalation toxicity	Acute toxicity estimate: 11 mg/l Test atmosphere: vapor Method: Expert judgment

Acute dermal toxicity	Acute toxicity estimate: 1,100 mg/kg Method: Expert judgment Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
Ethylbenzene	
Acute oral toxicity	LD50 (Rat): 3,500 mg/kg
Acute inhalation toxicity	LC50 (Rat): 17.2 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg
Skin corrosion/irritant	Not classified based on available information.
Ingredients:	
Xylene	Species: Rabbit Result: Skin irritation
Serious eye damage/ eye irritant	Not classified based on available information.
Ingredients:	
Xylene	Species: Rabbit Result: Irritation to eyes, reversing within 7 days
Respiratory sensitization	Not classified based on available information.
Skin sensitization	Not classified based on available information.
Ingredients:	
Xylene	Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Method: OECD Test Guideline 429
Ethylbenzene	Test Type: Human repeat insult patch test (HRIPT) Routes of exposure: Skin contact Result: negative
Germ cell mutagenicity	Not classified based on available information.
Ingredients:	
Decamethylcyclopentasiloxane	
Genotoxicity in vitro	Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on test data
Genotoxicity in vivo	Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: inhalation (vapor) Result: negative Remarks: Based on test data
Germ cell mutagenicity assessment	Animal testing did not show any mutagenic effects.
Carcinogenicity	
Ingredients:	

Ethylbenzene

Species: Rat
Application Route: Inhalation
Exposure time: 104 weeks
Result: positive
Remarks: The mechanism or mode of action may not be relevant in humans.

Overall Evaluation of Carcinogenicity

IARC

Group 2B: Possibly carcinogenic to humans
Ethylbenzene 100-41-4

OSHA

No ingredient of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity Not classified based on available information.

Ingredient:

Decamethylcyclopentasiloxane:

Effects on fertility

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Inhalation
Symptoms: No effects on fertility.
Remarks: Based on test data

Effects on fetal development

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Inhalation
Symptoms: No effects on fetal development.
Remarks: Based on test data

Reproductive toxicity - assessment

No evidence of adverse effects on sexual and fertility, or on development, based on animal experiments.

Xylene:

Effects on fertility

Test type: One-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapor)
Results: negative

Effects on fetal Development

Test type: Embryo-fetal development
Species: Rat
Application Route: inhalation (vapor)
Results: negative

Specific target organ toxicity - Not classified based on available information. single exposure

Specific target organ toxicity - Not classified based on available information. repeated exposure

Ingredients:

Decamethylcyclopentasiloxane:

Routes of exposure: Skin contact
Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.
Species: Rat
Application Route: Skin contact

Remarks: Based on test data
Routes of exposure: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.
Species: Rat
Application Route: Ingestion
Remarks: Based on test data
Routes of exposure: inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.
Species: Rat
Application Route: inhalation (vapor)
Remarks: Based on test data

Aspiration hazard

Not classified based on available information.

12. Ecological information

Ecotoxicity

Toxicity to fish: (Chronic toxicity)	No toxicity at the limit of solubility
Toxicity to daphnia: and other aquatic invertebrates (Chronic toxicity)	No toxicity at the limit of solubility
Ecotoxicology Assessment Chronic aquatic toxicity	This product has no known ecotoxicological effects.

Persistence and degradability

Ingredients:

Decamethylcyclopentasiloxane: Biodegradability	Result: Not readily biodegradable. Biodegradation: 0.14 % Exposure time: 28 d Method: OECD Test Guideline 310
---	--

Bioaccumulative potential

Decamethylcyclopentasiloxane: Bioaccumulation	Species: Pimephales promelas (fathead minnow) Bioconcentration factor (BCF): ≥ 500 Remarks: Based on test data Trophic magnification factor < 1 Biomagnification factor < 1 Does not biomagnify along the food chain.
--	---

Mobility in soil

No data available.

Other adverse effects

No data available

13. Disposal considerations

Disposal instructions:	Dispose in accordance with local and federal regulations.
Contaminated packaging:	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.

14. Transport information

International regulation

UNRTDG	Not regulated as a dangerous good
IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good

Domestic regulation

49 CFR

UN/ID/NA number	NA 1993
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S
Class	A
Packing group	III
Labels	None
ERG code	128
Marine pollutant	No
Remarks	The above shipping regulations apply only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons or 450 liters.

15. Regulatory information

US State regulations

California Proposition 65

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

Chemical name	CAS number	Warning
Ethylbenzene	100-41-4	cancer

16. Other information

Further Information

NFPA



HMIS



0 = not significant, 1 = slight

2 = moderate, 3 = high
4 = extreme, * = chronic

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.