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

- OSHA defined hazards: Not Classified
- GHS classification: Not a dangerous substance or mixture according to GHS.
- GHS label elements: No label required according to GHS requirements.
- Hazard(s) not otherwise Classified (HNOC): Combustible liquid
3. Composition/information on ingredients

Mixtures

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

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 warm 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 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.

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
On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray.

Unsuitable extinguishing media
High volume water jet

Hazardous combustion products
Carbon oxides, silicon oxides, formaldehyde, metal oxides, and chlorine compounds.
Specific hazards arising from the chemical
Do not use a solid water stream as it may scatter and spread fire. Vapors are combustible and heavier than air and can travel across the ground reaching remote ignition sources and causing a flashback fire over considerable distance. Static electricity can accumulate and may ignite vapors. Prevent possible fire hazard by bonding and grounding or inert gas purge.

Special protective equipment and precautions for firefighters
Firefighters and others exposed to products of combustion should wear full fire turn out gear and self-contained breathing apparatus (pressure demand/NIOSH approved of equivalent). Exposure to combustion products may be hazard to health.

Fire-fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods
Water can be used to cool fire exposed containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Observe all personal protection equipment recommendations in Section 8. Remove all sources of ignition.

Methods and materials for containment and cleaning up
Clean spilled 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. Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with water spray jet.

Environmental precautions
Avoid discharge to drains, sewers, and other water systems by diking or other appropriate containment. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

7. Handling and storage

Precautions for safe handling
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. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage, including any incompatibilities
Store container closed and tightly sealed in a well ventilated area.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene (CAS 100-41-4)</td>
<td>PEL</td>
<td>435 mg/m3 (100 ppm)</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>PEL</td>
<td>435 mg/m3 (100 ppm)</td>
</tr>
<tr>
<td>Decamethylcyclopentasiloxane (CAS 541-02-06)</td>
<td>No PEL or human data available</td>
<td></td>
</tr>
</tbody>
</table>
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene (CAS 100-41-4)</td>
<td>TWA</td>
<td>87 mg/m³ (20 ppm)</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>TWA</td>
<td>434 mg/m³ (100 ppm)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>651 mg/m³ (150 ppm)</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene (CAS 100-41-4)</td>
<td>TWA</td>
<td>435 mg/m³ (100 ppm)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>545 mg/m³ (125 ppm)</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>TWA</td>
<td>435 mg/m³ (100 ppm)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>655 mg/m³ (150 ppm)</td>
</tr>
</tbody>
</table>

Biological occupational exposure limit values

<table>
<thead>
<tr>
<th>Components</th>
<th>Biological Specimen</th>
<th>Permissible Concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene (CAS 100-41-4)</td>
<td>Urine</td>
<td>0.7 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>Urine</td>
<td>1.5 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Observe occupational exposure limits and minimize the risk of exposure. Local and general ventilation are recommended for use indoors, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection
Use approved safety glasses as a minimum.

Skin protection
- Hand: Use good industrial hygiene practices to minimize skin contact. For prolonged or repeated skin contact use chemical resistant gloves.
- 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
- Physical state: 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 (Closed cup method)
- 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 (H2O=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 products: Thermal breakdown of the product during a fire or very high heat conditions may evolve the following: 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

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.

**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** - Animal testing did not show any mutagenic effects.

Carcinogenicity

**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.

IARC Monographs. Overall Evaluation of Carcinogenicity
- Group 2B  Possibly carcinogenic to humans
- Ethylbenzene  100-41-4

ACGIH
- Confirmed animal carcinogen with unknown relevance to humans
- Ethylbenzene  100-41-4

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

NTP Report on Carcinogens
- No ingredient of this product preset at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

Reproductive toxicity  Not classified based on available information.

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

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

**Application Route:** Inhalation
**Remarks:** Based on test data

**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:** Ingestion (vapor)
Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.
Species: Rat
Application Route: Ingestion (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** – This product has no known ecotoxicological effects.

**Chronic aquatic toxicity**

**Persistence and degradability**

**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

<table>
<thead>
<tr>
<th>UN/ID/NA number</th>
<th>NA 1993</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>COMBUSTIBLE LIQUID, N.O.S</td>
</tr>
<tr>
<td>Class</td>
<td>A</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Labels</td>
<td>None</td>
</tr>
<tr>
<td>ERG code</td>
<td>128</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>No</td>
</tr>
<tr>
<td>Remarks</td>
<td>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.</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>cancer</td>
</tr>
</tbody>
</table>
16. Other information

Latest revision(s)

Date of revision 07.01.2015

Further information

NFPA

HMIS

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