1. Identification

Product identifier: Top Gun FR

Other means of identification

- **Generic name:** Acrylic coated fabric
- **Synonyms:** Coated fabric
- **Recommended use:** Boat covers, awnings, tents, and canopies
- **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:** (573)-237-4444

2. Hazard(s) identification

- **OSHA defined hazards:** Not classified
- **Label elements**
  - **Labelling (GHS):** Not a hazardous substance or mixture
  - **Hazard(s) not otherwise Classified (HNOC):** None known

3. Composition/information on ingredients

**Components**

Fabric consists of 100% polyester.

**Mixtures**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic coating mixture</td>
<td>Proprietary mixture</td>
<td>34</td>
</tr>
</tbody>
</table>
Composition comments
Component(s) could be considered hazardous in pure form, none are significantly hazardous in the finished product due to dilution and encapsulation and pose no significant threat to human health or environment unless the product is ground into a powder form of breathable size and the dust inhaled.

When used for its intended purpose, this material is not 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

Inhalation
No special measures required.

Skin contact
Rinse area with warm water and soap.

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.

Most important symptoms/delayed effects
None known.

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
None known

Hazardous combustion products
None known

Specific hazards arising from the chemical
When heated to decomposition, product emits irritating fumes. Do not expose to products of combustion gases.

Special protective equipment and precautions for firefighters
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 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 fabric rolls.

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
Product presents no hazards for being contained. If fabric or fabric pieces become loose, sweep and scoop up appropriately.
Environmental precautions

Product is not hazardous to environmental settings.

7. Handling and storage

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practices. Use with adequate ventilation. Product may become slippery to walk on when wet. Charges of static electricity may be generated during handling and processing.

Conditions for safe storage, including incompatibilities
Store under normal conditions, this material is not hazardous. Keep away from moist environments. Prolonged exposure to heat and moisture, once dirt has attached itself to the fabric, may cause mold and mildew growth.

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>Formaldehyde</td>
<td>TWA</td>
<td>0.75 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>2 ppm</td>
</tr>
<tr>
<td></td>
<td>Action level</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>Antimony Oxide</td>
<td>TWA</td>
<td>0.5 mg/m3 as Sb</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>Formaldehyde</td>
<td>Ceiling</td>
<td>0.3 ppm (0.37 mg/m3)</td>
</tr>
<tr>
<td>Antimony Oxide</td>
<td>TWA</td>
<td>0.5 mg/m3 as Sb</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>Formaldehyde</td>
<td>TWA</td>
<td>0.016 ppm</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Antimony Oxide</td>
<td>TWA</td>
<td>0.5 mg/m3 as Sb</td>
</tr>
</tbody>
</table>

Biological occupational exposure limit values

Not classified based on available information.

Appropriate engineering
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 by washing at mealtime and end of shifts. If repetitive contact is anticipated, such as sewing operations, protective gloves are recommended.
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 and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash.

General information  
These precautions are for extreme circumstances. This product is not a hazardous material.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Various colors</td>
</tr>
<tr>
<td>Odor</td>
<td>No objectionable odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&gt;255-260˚C/No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit – lower (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability limit – upper (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limit – lower (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limit – upper (%)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Solid</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>13.0oz/yd2</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Reactivity This product is non-reactive under normal conditions of use, storage and transport.

Chemical stability Product 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 None known.

Hazardous decomposition products None with proper storage and handling. 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, hydrocarbons, and formaldehyde.

11. Toxicological information

Information on likely routes of exposure

Inhalation No known hazards based on vapor inhalation. Not a respiratory sensitizer.

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

Toxicological effects

Acute toxicity Not classified based on available information.

Acute oral toxicity Based on available data acute toxic effects are not expected after single oral exposure.

Acute inhalation toxicity Based on available data a sensitization reaction is not expected from this product.

Skin corrosion/irritant Based on available data a clinically relevant skin irritation hazard is not expected, though an allergic reaction is possible in persons with pre-existing conditions.

Serious eye damage/eye irritant Based on available data a clinically relevant eye irritation hazard is not expected.

Respiratory sensitization Based on available data a sensitization reaction is not expected from this product.

Skin sensitization Based on available data a clinically relevant skin irritation hazard is not expected.

Germ cell mutagenicity Based on known data a significant mutagenic potential may be excluded.

Carcinogenicity This product is not considered to be a carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH  No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

OSHA  No ingredient of this product present 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 present 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.

   Effects on fertility  No data available
   Effects on fetal development  No data available

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

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

Aspiration hazard  Based on the physical-chemical properties of the end product no aspiration hazard is expected.

12. Ecological information

Ecotoxicity

   Toxicity to fish  No adverse effects expected.
   (Chronic toxicity)

   Toxicity to daphnia and other aquatic invertebrates  No adverse effects expected.
   (Chronic toxicity)

Persistence and degradability  No adverse effects expected.

Bioaccumulative potential  No adverse effects expected.

Mobility in soil  No adverse effects expected.

Other adverse effects  No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this product.

13. Disposal considerations

Disposal instructions  This product has been evaluated for Resource Conservation and Recovery Act (RCRA) and does not meet the criteria of hazardous waste when discarded as received. Dispose in accordance with local regulations.

Contaminated packaging  Not applicable to fabric packaging.

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
Not regulated as a dangerous good

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>Wt %</th>
<th>CAS number</th>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>&lt;0.05</td>
<td>50-00-0</td>
<td>cancer/reproductive</td>
</tr>
<tr>
<td>Antimony Oxide</td>
<td>Encapsulated</td>
<td>1309-64-4</td>
<td>cancer</td>
</tr>
</tbody>
</table>

16. Other information
Latest revision(s)
Date of revision 06.26.2015

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