

Marlen Textiles

Safety Data Sheet

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1. Identification

Product identifier Top Notch FR

Other means of identification

Generic name Solution dyed, fire retardant fabric

Synonyms Fire retardant, water repellent fabric

Recommended use 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% solution dyed polyester.

Mixtures

Chemical name	CAS number	%
Urethane coating mixture	Proprietary mixture	10

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/ effects, acute and delayed 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 Product is flammable and will melt and/or burn when exposed to heat or open flame. When heated to decomposition, product emits irritating fumes. Do not inhale 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 or 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)

Components	Type	Value
Formaldehyde	TWA	0.75 ppm
	STEL	2 ppm
	Action level	0.5 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Formaldehyde	Ceiling	0.3 ppm (0.37 mg/m3)

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

Components	Type	Value
Formaldehyde	TWA	0.016 ppm
	Ceiling	0.1 ppm

Biological occupational exposure limit values

Not classified based on available information.

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 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 hands 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

Appearance

Physical state	Solid
Color	Various colors
Odor	No objectionable odor
Odor threshold	No data available
pH	No data available
Melting point/freezing point	>255-260°C/No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	No data available
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	No data available
Relative density	No data available
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	Solid
Other information	
Weight	11.5 oz/yd ²

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 None known

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

Chemical name	Wt %	CAS number	Warning
Formaldehyde	trace	50-00-0	cancer/reproductive

16. Other information

Latest revision(s)

Date of revision 10.5.2017

Further information

NFPA



HMIS



0 = not significant, 1 = slight
2 = moderate, 3 = high
4 = extreme, * = chronic

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