

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH),
amended by Regulation (EC) No. 453/2010
Regulation 20 12 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Version 1.1

Print date: September 28, 2015
Revision date: June 4, 2015

SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking

PRODUCT IDENTIFIER

Product Name: **Polypropylene**

Product Type: Nonwoven Fabric

Chemical Family: Thermoplastic Polyolefin

Component Information: This product is considered an article and does not require an SDS.

RELEVANT USES OF THE PRODUCT

Recommended Use: Landscape Fabric

DETAILS OF THE SUPPLIER

Address: Master Gardner Co.
5770 N Blackstock Rd
Spartanburg SC 29303
USA

Company Contact: Bruce Kullman

Telephone Number: +1 (864) 574 7834

Email: bruce@mastergardner.com

SECTION 2: Hazards Identification

CLASSIFICATION

OSHA: The product is considered an article under the Hazard Communication Standard (HCS) and not classified as hazardous material.

1272/2008/EC: The product does not meet the criteria for classification in any hazard class according to regulation EC 1272/2008 on classification, labelling and packaging of substances and mixtures.



LABEL ELEMENTS

Product Identifier:	Polypropylene
Pictograms:	not applicable
Signal word:	not applicable
Hazard Statements:	not applicable
Precautionary statements:	not applicable

OTHER HAZARDS

Hazards not otherwise classified:

Processing of this material may generate dust which can cause mechanical irritation of the eyes, skin, nose, and throat. In the event that combustible dust is generated, the hazard is posed only by the size of the particle not its chemical content, because all monomers, additives, and pigments are totally encapsulated within the resin and cannot be released in pure form.

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Precautions:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Solid material may burn upon extended exposure to open flames.

SECTION 3: Composition / Information on Ingredients

CAS #	SUBSTANCE NAME	PERCENT	CLASSIFICATION acc. to
			EC 1272/2008
9003-07-0	Polypropylene	>94%	not classified
26221-73-8	Polyethylene	<4%	not classified
mixture	Pigment masterbatch	<1%	not classified
13463-67-7	<i>Titanium dioxide</i>	<i>unknown</i>	<i>not classified</i>
Mixture	Proprietary ingredients	<1%	not classified

Any concentration shown as a range is to protect confidentiality or is due to variations. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health, and hence require reporting in this section.



SECTION 4

First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

General notes: Processing of this material may generate dust which can cause mechanical irritation of the eyes, skin, nose, and throat. In the event that combustible dust is generated, the hazard is posed only by the size of the particle not its chemical content, because all monomers, additives, and pigments are totally encapsulated within the resin and cannot be released in pure form.

Following Inhalation: Not Applicable

Following Skin contact: Wash affected area with soap and water.

Following Eye contact: Rinse eyes with water for at least 15 minutes. If irritation persists, contact a physician.

Following Ingestion: Not Applicable

Self-protection firstaider: No health conditions aggravated by exposure are identified. Contact the poison control center if any problem occurs.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms: Reddening of eyes or skin

Effects: not applicable

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes for the Doctor: none

Special Treatment: none

SECTION 5:

Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical

Unsuitable Extinguishing Media: not applicable

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products: Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene.



Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

ADVICE FOR THE FIRE-FIGHTERS

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

As in any fire, wear a self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental Release Measures

PERSONAL PRECAUTION, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Non-emergency personal: Removal of ignition sources, provision of sufficient ventilation, control of dust

Emergency responders: In case of fire wear a self-contained breathing apparatus and full protective gear.

ENVIRONMENTAL PRECAUTIONS

Measures: not applicable

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

For Containment: Sweep waste fabric into a pile.

For Cleaning Up: Sweep waste fabric into a waste container and recycle, incinerate or landfill in conformity with local disposal regulations.

Other Information: None

SECTION 7: Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Fire Prevention: Avoid exposure to heat, sparks or open flames. No smoking.

Occupational Hygiene: Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed.



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CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Conditions: Store material in accordance with local regulations in clean, cool and dry warehouse that is equipped with a sprinkler system. Eliminate all ignition sources. Separate from oxidizing material. Ensure product is not stacked too high. Store the product off the floor to prevent water damage. Avoid direct exposure to UV light. Avoid exposure to corrosive substances. Limit exposure to petroleum powered engine exhaust.

SECTION 8: Exposure Controls./ Personal Protection

CONTROL PARAMETERS

Occupational Exposure Limits:

Product is not considered to present an occupational health hazard under reasonably anticipated conditions of use.

Biological Limit Values

Product is not considered to present a biological hazard under reasonably anticipated conditions of use.

EXPOSURE CONTROL

Appropriate Engineering Controls: Normal room ventilation is usually adequate.

Personal Protective Equipment: Usually none required

General: Follow individual plant safety rules.

SECTION 9: Physical & Chemical Properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Fabric	Vapor Density	not available
Odor:	not available	Relative Density	not available
pH:	not available	Solubility {water):	insoluble
Melting Point	135 -167 °C	Partition coefficient: n-octanol/water	not available
Boiling Point:	not available	Auto-Ignition Temperature	not available
Flash Point	not available	Decomposition temperature:	>300 °C



Evaporation Rate:	not available	Viscosity	solid
Flammability	not available	Explosive Properties	not variable
Upper/lower flammability or explosive limits	not available	Oxidizing Properties	not available
Vapor Pressure:	NIL		

OTHER INFORMATION

Physical hazard: heat, sparks or open flames

SECTION 10: Stability & Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: At conditions above 300°C, material will release vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).

Incompatible Materials: oxidizing materials

Hazardous Decomposition: Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbon may be emitted upon decomposition. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

SECTION 11: Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

Test data for the product comprising a mixture of different substances (see section 3), are not available. The product does not contain substances intended for release. The Titanium Dioxide (CAS # 13463-67-7) is embedded and firmly bound into a polymeric matrix. As a result, the Titanium Dioxide (CAS # 13463-67-7) itself should not migrate out of the products or finished articles.

The data below thus refer to the single ingredients.



Acute Toxicity:

Substance	Effect. dose	Species	Method	Symptoms	Remarks
titanium dioxide (GAS 13463-67-7)	LOSO>5000 mg/kg	rat	oral		

Skin Irritation: not available

Eye Irritation: not available

Respiratory / Skin Sensitization: not available

Genn Cell Mutagenicity: not available

Carcinogenicity: not available*

• Titanium Dioxide (CAS # 13463-67-7) has been evaluated by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). However, the American Conference of Governmental Industrial Hygienists (ACGIH) classifies Titanium Dioxide (CAS # 13463-67-7) as 4A, "not classifiable as a human carcinogen". The Titanium Dioxide (CAS # 13463-67-7) is embedded and firmly bound into a polymeric matrix. As a result, the Titanium Dioxide (CAS# 13463-67-7) itself should not migrate out of the products or finished articles.

Reproductive Toxicity: not available

STOT-single Exposure: not available

STOT-repeated Exposure: not available

SECTION 12: Ecological Information

Ecotoxicity: no information available.

Aquatic Toxicity: the product is insoluble in water and thus not expected to show toxic effects to aquatic life

Persistence / Degradability: the product is based on polypropylene and not biodegradable.

Bioaccumulative Potential: no information available

Mobility in Soil: this product is not likely to move rapidly with surface or groundwater flows because of its low water solubility

Results PBT Assessment: no information available

Other Adverse Effects: no information available

SECTION 13: Disposal Considerations

WASTE TREATMENT METHODS

General Product Information: Nonwoven fabric based on polyolefin fibers.

Component Waste Numbers: No EPA Waste Numbers are applicable for this product's components



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Disposal Instructions: Dispose of container and unused contents in accordance with federal, state and local requirements.
Waste Treatment Options: Incineration, recycling, landfill

SECTION 14: Transport Information

The product is not regulated for transportation.

Special precautions for users: not applicable
Transport in bulk acc. Annex II of MARPOL 73/78 and BC Code: not applicable
Additional information: none

SECTION 15: Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

EU REGULATIONS

The components of the product comply with the following regulations:
REACH EG/1907/2006 Appendix XIV (June 2015)

US FEDERAL REGULATIONS

The components of the product comply with the following regulations:

21 CFR 177.2260(9) FDA	yes
40 CFR 355 Appx A (SARA 302)	yes
40 CFR 372.65 (SARA 313)	yes
40 CFR 302.4 (CERCLA)	yes

STATE REGULATIONS

The following components appear on one or more of the following state hazardous substance lists:

Component	GA	CA Prop 65	CA	MA	MN	NJ	PA
titanium dioxide	13463-67-7	no	no	yes	yes	yes	yes

Component Analysis-WHMIS IDL

The components of this product are either not listed on the Canadian Hazardous Products Act Ingredient Disclosure List or are present below the threshold limit listed on the IDL.



CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment is not required.

SECTION 16: Other Information

Indication of Changes:

Date of last issue: 04-Jun-2015

Current Version: 1.1

Date	Changes
04.06.2015	GHS Compliance

Abbreviations and Acronyms:

CAS	Chemical Abstract Service
CFR	Code of Federal Regulations (USA)
EC	European Community
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of Notified Chemical Substances
EPA	Environmental Protection Agency
FDA	Food and Drug Administration
HCS	Hazard Communication Standard
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
MARPOL 73/78	International Convention for the Protection of Pollution from Ships
OSHA	European Agency for Safety and Health at Work
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
STOT	Specific Target Organ Toxicity
TSCA	Toxic Substance Control Act

Key literature references and sources for data

Material for this SDS was taken from SDS's for the raw materials



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Notice to the Reader:

To the best of our knowledge, the information in this SDS is believed to be accurate as of the date issued. However, neither Precision Converters, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. It is the sole responsibility of the user to determine the suitability of the material. Precision Converters, Inc. cannot guarantee that the described hazards are the only ones that exist.