# MATERIAL SAFETY DATA SHEET

## **UV GREEN TPU**

Version Number 1.0 Revision Date 12/31/2004 Page 1 of 6 Print Date 11/16/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:number	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name :	UV GREEN TPU
Product code :	CC10063437
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Phenol,	25973-55-1	5 - 10
2-(2H-benzotriazol-2-yl)-4,6-bis(1,1-dimeth		
ylpropyl)-		
Decanedioic acid,	52829-07-9	5 - 10
bis(2,2,6,6-tetramethyl-4-piperidinyl) ester		
Titanium dioxide	13463-67-7	5 - 10
Calcium carbonate	1317-65-3	10 - 30

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

#### POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

**POLYONE CORPORATION** 

PolyOne.

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Medical Conditions	: None known.
Aggravated by Exposure:	
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases o doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
Suitable extinguishing media	: Carbon dioxide blanket, water spray, dry powder, foamnone.
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	<ul> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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Handling		ake measures to prevent the bundle in areas with appropriate example.		arge. Heat
Storage		Leep containers dry and tightly nd contamination. Keep in a d		absorption
8. I	EXPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally r	equired.
Eye/Face Protection	: S	afety glasses with side-shields.		
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and a		afety practic
Engineering measures		leat only in areas with appropri ppropriate exhaust ventilation a		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z
	15 mg/m3	PEL:	Total dust.	
Titanium dioxide			i oturi dubt.	OSHA Z
Titamum dioxide	10 mg/m3	Time Weighted Average (TWA):		OSHA Z ACGIH
	10 mg/m3 15 mg/m3	Time Weighted Average (TWA): PEL:	Total dust.	
	15 mg/m3	(TWA):		ACGIH
	15 mg/m3 9. PHYSIC	(TWA): PEL: CAL AND CHEMICAL PRO	PERTIES	ACGIH OSHA Z
Form	15 mg/m3 9. PHYSIC : Solic	(TWA): PEL: CAL AND CHEMICAL PRO	<b>PERTIES</b> ration rate : Not	ACGIH OSHA Z applicable
Form Appearance	15 mg/m3 9. PHYSIC : Solic : Pelle	(TWA): PEL: CAL AND CHEMICAL PRO the Evapor Specification of the second sec	<b>PERTIES</b> ration rate       : Not         ic Gravity:       : Not	ACGIH OSHA Z applicable determined
Form Appearance Color	15 mg/m3 9. PHYSIC : Solic : Pelle : GRE	(TWA): PEL: CAL AND CHEMICAL PRO t Evapor ts Specifi EN Bulk d	<b>PERTIES</b> ration rate       : Not         ic Gravity:       : Not         ensity       : Not	ACGIH OSHA Z applicable determined established
Form Appearance Color Odor	15 mg/m3 9. PHYSIC : Solic : Pelle : GRE : Very	(TWA):         PEL:         CAL AND CHEMICAL PRO         I       Evapor         ets       Specifi         EN       Bulk d         faint       Vapor	<b>OPERTIES</b> ration rate: Notic Gravity:: Notensity: Notpressure: Not	ACGIH OSHA Z applicable determined established applicable
Form Appearance Color	15 mg/m3 9. PHYSIC : Solid : Pelle : GRE : Very : Not of	(TWA):         PEL:         CAL AND CHEMICAL PRO         I       Evapor         ets       Specifi         EN       Bulk d         faint       Vapor	<b>PERTIES</b> ration rate       : Not         ic Gravity:       : Not         ensity       : Not         pressure       : Not         r density       : Not	ACGIH OSHA Z applicable determined established

Stability

: Stable.

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Version Number 1.0 Page 4 of 6 Print Date 11/16/2011 Revision Date 12/31/2004 Hazardous Polymerization : Will not occur. Conditions to avoid Keep away from oxidizing agents and open flame. To avoid thermal : decomposition, do not overheat. Incompatible Materials Incompatible with strong acids and oxidizing agents. : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen Hazardous decomposition : (NOx), other hazardous materials, and smoke are all possible. products

#### 11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
25973-55-1	Phenol, 2-(2H-benzotriazol-2-yl)-4 ,6-bis(1,1-dimethylpropyl) -	Systemic effects	Kidney, Liver, reproductive system.
52829-07-9	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-p iperidinyl) ester	Irritant	Eyes.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
52829-07-9	Decanedioic acid, bis(2,2,6,6-tetramethyl-4-p iperidinyl) ester	Oral LD50 Dermal LD50	3,700 mg/kg > 3,100 mg/kg	rat rabbit

	12. ECOLOGICAL INFORMATION	
Persistence and degradability	: Not readily biodegradable.	
Environmental Toxicity	: Chemicals are not readily available as they are bound within the polymer matrix.	
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.	
Additional advice	: No data available	



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	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics the product can be recycled. When possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste materi has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSC Inventory.
US. EPA CERCLA Hazardou	is Substances (40 CFR 302)
Not applicable	
California Propositior 65	<ul> <li>WARNING! This product contains a chemical known to the State o California to cause cancer.</li> </ul>
SARA Title III Section 302 E Not applicable	Extremely Hazardous Substance
SARA Title III Section 313 T	oxic Chemicals:
Not applicable Canadian Regulations:	

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National Pollutant Releas	se Inventory (NPRI)				
Chemical Name		CAS-No.	Weight %	NPRI ID#	1
Phthalocyanine green		1328-53-6	1.45	71	
WHMIS Classification WHMIS Ingredient Disc. CAS-No. 1328-53-6 DSL		this product are on SL) or are exempt.	n the Canadian	Domestic	
National Inventories:					
Australia AICS	: Listed				
China IECS	: Listed				
Europe EINECS	: Not determined				
Japan ENCS	: Not determined				
Korea KECI	: Listed				
Philippines PICCS	: Listed				
	16. OTHER INF	ORMATION			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.