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# MATERIAL SAFETY DATA SHEET **RED TPU**

Version Number 1.1 Revision Date 03/13/2014

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POLYONE CORPORATI 33587 Walker Road, Avoi		OH 44012
Felephone E <b>mergency telephone</b> number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	RED TPU
Product code	:	CC10152127
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

# ComponentsCAS-No.Weight percentBenzenesulfonic acid, 5-chloro-2-[(2-<br/>hydroxy-1-naphthalenyl)azo]-4-methyl-,<br/>barium salt (2:1)5160-02-15 - 10Titanium dioxide13463-67-71 - 5

#### 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	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.

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Medical Conditions Aggravated by Exposure:	: 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 of 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 a least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
	5. FIREFIGHTING MEASURES
Flash point	: not applicable
Flammable Limits Upper explosion limit	: not applicable
Lower explosion limit	: not applicable
Auto-ignition temperature Suitable extinguishing media	<ul><li>not applicable</li><li>Carbon dioxide blanket, Water spray, Dry powder, Foam.</li></ul>
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 no 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.
	7. HANDLING AND STORAGE



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Handling		ake measures to prevent the bui nly in areas with appropriate ex		charge. Heat		
Storage			ontainers dry and tightly closed to avoid moisture absorption tamination. Keep in a dry, cool place.			
8. ]	EXPOSURE	CONTROLS/PERSONAL P	ROTECTION			
Respiratory protection	: N	lo personal respiratory protectiv	e equipment normally	required.		
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	Safety shoes				
General Hygiene Considerations		Iandle in accordance with good ractice. Wash hands before brea				
Engineering measures		Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.				
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	- · ·	ACGIH		
	15 mg/m3	PEL:	Total dust.	OSHA Z1		
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A		
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL		
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility
- solid
  pellets
  RED
  very faint
  Not determined
  not applicable
  insoluble
- Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH
- Not applicable
  Not determined
  Not established
  not applicable
  not applicable
  not applicable

#### **10. STABILITY AND REACTIVITY**

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Stability	:	The product is stable if stored and handled as prescribed.
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.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

### 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
5160-02-1	Benzenesulfonic acid, 5- chloro-2-[(2-hydroxy-1- naphthalenyl)azo]-4- methyl-, barium salt (2:1)	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

# Image: Interpretendent interpre



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Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: no data available
	13. DISPOSAL CONSIDERATIONS
Product	: Like most thermoplastic plastics the product can be recycled. Where 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 material 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	: 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 TSCA Inventory.
US. EPA CERCLA Hazardo	us Substances (40 CFR 302)
not applicable	
California Proposition 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 I	Extremely Hazardous Substance
	identified under this section, this product is Not Applicable under this regul

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SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent	
BARIUM COMPOUNDSBARIUM COMPOUNDS	5160-02-1	5.00 - 10.00	
[EXCEPT BASO4]			

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

÷

not applicable

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
5160-02-1	
150-13-0	

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Not determined
Korea KECI	:	Listed
Philippines PICCS	:	Listed

#### **16. OTHER INFORMATION**

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 used in combination with any other materials or in any process, unless specified in the text.