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Version Number 1.1 Revision Date 10/05/2015 Page 1 of 16 Print Date 11/24/2015

# SAFETY DATA SHEET

#### **TPU BLACK C**

Section 1. Identification		
GHS product identifier	:	TPU BLACK C
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10160639
Product type	:	solid
Relevant identified uses of the subst	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

## Section 2. Hazards identification

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

#### GHS label elements



Version Number 1.1 Revision Date 10/05/2015 Page 2 of 16 Print Date 11/24/2015

Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
		C
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10160639

CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	1 - 5	1333-86-4
Titanium dioxide	1 - 5	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary first aid measures

#### POLYONE CORPORATION



## SAFETY DATA SHEET TPU BLACK C

Version Number 1.1	Page 3 of 16
Revision Date 10/05/2015	Print Date 11/24/2015

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects		
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: Exposure to decomposition products may cause a health hazard.	
	Serious effects may be delayed following exposure.	
Skin contact	: No known significant effects or critical hazards.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symptoms		
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.	
See torrigological information (See	ion 11)	

See toxicological information (Section 11)



Version Number 1.1 Revision Date 10/05/2015

#### Page 4 of 16 Print Date 11/24/2015

## **Section 5. Fire-fighting measures**

#### **Extinguishing media**

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for 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.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of
For emergency responders	•	any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containment and cleaning up		

Small spill	: Move containers from spill area. Vacuum or sweep up material and
	place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

vOne

Version Number 1.1 Revision Date 10/05/2015

#### Page 5 of 16 Print Date 11/24/2015

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## **Section 7. Handling and storage**

#### Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

:

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Carbon black	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 3.5 mg/m3
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 3.5 mg/m3
	NIOSH REL (1994-06-01)
	Time Weighted Average (TWA) 3.5 mg/m3
	Time Weighted Average (TWA)
	ACGIH TLV (2010-12-06)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction



Version Number 1.1 Revision Date 10/05/2015

Titanium dioxide		OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust NIOSH REL (1994-06-01) ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Appropriate engineering controls Environmental exposure controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures Eye/face protection	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection Body protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Version Number 1.1 Revision Date 10/05/2015 Page 7 of 16 Print Date 11/24/2015

**Respiratory protection** 

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

:

#### **Appearance**

Physical state	:	solid [Pellets.]
Color	:	BLACK
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity Chemical stability	<ul> <li>No specific test data related to reactivity available for this product or its ingredients.</li> <li>Stable under recommended storage and handling conditions (see Section 7).</li> </ul>
	7/16



Version Number 1.1 Revision Date 10/05/2015 Page 8 of 16 Print Date 11/24/2015

Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will
		not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids.
		Oxidizer.
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous decomposition
products		products should not be produced.

## Section 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.

#### **Information on toxicological effects**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
<b>Conclusion/Summary</b>	: Mixt	ure.Not fully tested.		
Irritation/Corrosion				
Conclusion/Summary	Mint	Not falls to stad		
Skin Eyes		ure.Not fully tested. ure.Not fully tested.		
Respiratory		ure.Not fully tested.		
Kespii ator y	• WIIXU	ure.ivor fully tested.		
<b>Sensitization</b>				
Conclusion/Summary				
Skin		ure.Not fully tested.		
Respiratory	: Mixt	ure.Not fully tested.		
<u>Mutagenicity</u>				
Conclusion/Summary	: Mixt	ure.Not fully tested.		
<b>Carcinogenicity</b>				



Version Number 1.1 Revision Date 10/05/2015 Page 9 of 16 Print Date 11/24/2015

name       2B         Carbon black       2B         Titanium dioxide       2B         Reproductive toxicity         Conclusion/Summary       :         Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Specific target organ toxicity (single exposure)         Not available.         Specific target organ toxicity (repeated exposure)         Not available.         Aspiration hazard         Not available.         Potential acute health effects         Eye contact       :         Inhalation       :         Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       :         No known significant effects or critical hazards.         Inhalation       :         ingestion       :         No known significant effects or critical hazards.	Product/ingredient	OSHA	IARC	NTP
Titanium dioxide       2B         Reproductive toxicity       Conclusion/Summary         Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure)       Not available.         Not available.       Specific target organ toxicity (repeated exposure)         Not available.       Not available.         Aspiration hazard       Not available.         Not available.       Exposure         Potential acute health effects       Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       :       No known significant effects or critical hazards.         Inpestion       :       No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics       Eye contact       :         Symptoms related to the physical, chemical and toxicological characteristics       Eye contact       :       No specific data.         Inhalation       :       No specific data.       So specific data.	ę	0.0		
Reproductive toxicity         Conclusion/Summary       :         Mixture.Not fully tested.         Teratogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure) Not available.         Aspiration hazard Not available.         Potential acute health effects         Eye contact       :         No known significant effects or critical hazards. Serious effects may be delayed following exposure. Skin contact         Skin contact       :         No known significant effects or critical hazards. Infestion         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :         No known significant effects or critical hazards.         Infestion       :         No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :         No specific data.         Inhalation       :         No specific data.	Carbon black		2B	
Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Specific target organ toxicity (repeated exposure) Not available.         Specific target organ toxicity (repeated exposure) Not available.       Specific target organ toxicity (repeated exposure) Not available.         Aspiration hazard Not available.       .         Potential acute health effects       :         Eye contact       :       Not available.         Spiration       :       Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Skin contact       :         Symptoms related to the physical, chemical and toxicological characteristics         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :       No specific data. Inhalation         Skin contact       :       No specific data. Sin contact         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :       No specific data. Skin contact         Skin contact       :       No specific data. No specific data.	Titanium dioxide		2B	
Teratogenicity         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.	<b><u>Reproductive toxicity</u></b>			
Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.	Conclusion/Summary	:	Mixture.Not fu	illy tested.
Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure) Not available.         Aspiration hazard Not available.         Information on the likely routes of : exposure       Not available.         Potential acute health effects         Eye contact : Inhalation : Skin contact : Ingestion : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics         Eye contact : No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact : Inhalation : No specific data. Inhalation : No specific data. Skin contact : No specific data.	<b>Teratogenicity</b>			
Not available.         Specific target organ toxicity (repeated exposure) Not available.         Aspiration hazard Not available.         Information on the likely routes of : exposure       Not available.         Potential acute health effects         Eye contact : Inhalation : Skin contact : Ingestion : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. No known significant effects or critical hazards. Symptoms related to the physical, chemical and toxicological characteristics         Eye contact : No specific data. Inhalation : No specific data.	Conclusion/Summary	:	Mixture.Not fu	Illy tested.
Not available.         Aspiration hazard         Not available.         Information on the likely routes of exposure         Potential acute health effects         Eye contact       : No known significant effects or critical hazards.         Inhalation       : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       : No known significant effects or critical hazards.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : No specific data.         Sin contact       : No specific data.		(single exp	<u>oosure)</u>	
Not available.         Information on the likely routes of exposure       Not available.         Potential acute health effects         Eye contact       : No known significant effects or critical hazards.         Inhalation       : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       : No known significant effects or critical hazards.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : No specific data.         Skin contact       : No specific data.		(repeated	<u>exposure)</u>	
exposure         Potential acute health effects         Eye contact       :       No known significant effects or critical hazards.         Inhalation       :       Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       :       No known significant effects or critical hazards.         Ingestion       :       No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :       No specific data.         Inhalation       :       No specific data.         Skin contact       :       No specific data.	Aspiration hazard Not available.			
Inhalation:Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Skin contact:No specific data.		es of :	Not available.	
Inhalation:Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Skin contact:No specific data.	Potential acute health effects			
Inhalation       : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.         Skin contact       : No known significant effects or critical hazards.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : No specific data.	Eve contact		No known sigr	ificant effects or critical hazards.
Skin contact       : No known significant effects or critical hazards.         Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : No specific data.			Exposure to de	composition products may cause a health hazard.
Ingestion       : No known significant effects or critical hazards.         Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       : No specific data.         Inhalation       : No specific data.         Skin contact       : No specific data.				
Symptoms related to the physical, chemical and toxicological characteristics         Eye contact       :       No specific data.         Inhalation       :       No specific data.         Skin contact       :       No specific data.				
Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.	Ingestion	:	No known sigr	nificant effects or critical hazards.
Inhalation:No specific data.Skin contact:No specific data.	Symptoms related to the physi	ical, chemi	cal and toxicolo	gical characteristics
Inhalation:No specific data.Skin contact:No specific data.	Eve contact		No specific dat	a.
Skin contact : No specific data.			-	
1			-	
8	Skin contact			
			No mention 1.4	

Short term exposure

#### POLYONE CORPORATION



## SAFETY DATA SHEET TPU BLACK C

Version Number 1.1 Revision Date 10/05/2015

#### Page 10 of 16 Print Date 11/24/2015

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical magnines of tariaita		

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Carbon black			
	Acute EC50 37.563 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
	Acute LC50 61.547 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
Titanium dioxide			•
	Acute LC50 > 1,000,000 µg/l	Fish - Fish	96 h
	Marine water		
	Acute LC50 > 1,000 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates.	48 h



Version Number 1.1 Revision Date 10/05/2015

		Daphnia	
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates. Crustacean Order	48 h
TPU BLACK C			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available a	s they are bound within the	e polymer matrix.
Conclusion/Summary	: Chemicals are not readil polymer matrix.	ly available as they are bou	nd within the
Persistence and degradability	<u>y</u>		
Conclusion/Summary	: Chemicals are not readil polymer matrix.	y available as they are bou	nd within the

Conclusion/Summary

Chemicals are not readily available as they are bound within the polymer matrix.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

#### Mobility in soil

<b>I</b>	:	Not available.
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

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Version Number 1.1 Revision Date 10/05/2015

#### Page 12 of 16 Print Date 11/24/2015

### Section 13. Disposal considerations

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**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	: United States - TSCA 12(b) - Chemical export notification: None of the components are listed.
	United States - TSCA 4(a) - Final Test Rules: Not listed
	United States - TSCA 4(a) - ITC Priority list: Not listed
	United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	United States - TSCA 5(a)2 - Final significant new use rules: Not
	listed
	United States - TSCA 5(a)2 - Proposed significant new use rules:
	Not listed
	United States - TSCA 5(e) - Substances consent order: Not listed
	United States - TSCA 6 - Final risk management: Not listed
	United States - TSCA 6 - Proposed risk management: Not listed

<u>PolyOne</u>

Version Number 1.1	Page 13 of 16
Revision Date 10/05/2015	Print Date 11/24/2015

		United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(c) - Health and safety studies: Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc ferrite brown spinel (C.I. Pigment Yellow 119) Nickel Arsenic Chromium
		United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential	:	Not listed

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### SARA 311/312

Chemicals)

Classification

: Not applicable.

#### **Composition/information on ingredients**



Version Number 1.1 Revision Date 10/05/2015 Page 14 of 16 Print Date 11/24/2015

Name	%	Classification
Carbon black	1 - 5	СН
Titanium dioxide	1 - 5	СН

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Zinc ferrite brown spinel	68187-51-9	5 - 10
requirements	(C.I. Pigment Yellow 119)		
Supplier notification	Zinc ferrite brown spinel	68187-51-9	5 - 10
	(C.I. Pigment Yellow 119)		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations		
Massachusetts	:	The following components are listed: Calcium carbonate
		Carbon black
		Titanium dioxide
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Calcium carbonate
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)
		Carbon black
		Titanium dioxide
Pennsylvania	:	The following components are listed:
		Calcium carbonate
		Zinc ferrite brown spinel (C.I. Pigment Yellow 119)
		Carbon black
		Titanium dioxide
<u>California Prop. 65</u>		
	nemi	cal known to the State of California to cause cancer.
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
		14/16

#### POLYONE CORPORATION



### SAFETY DATA SHEET TPU BLACK C

Version Number 1.1	Page 15 of 16
Revision Date 10/05/2015	Print Date 11/24/2015

International lists	:	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Korea inventory: All components are listed or exempted.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

## Section 16. Other information

History		
Date of printing	:	11/24/2015
Date of issue/Date of revision	:	10/05/2015
Date of previous issue	:	03/22/2012
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

#### Notice to reader

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Version Number 1.1 Revision Date 10/05/2015 Page 16 of 16 Print Date 11/24/2015

sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.