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## SAFETY DATA SHEET

#### **TPE WHITE**

Section 1. Identification			
GHS product identifier	:	TPE WHITE	
Chemical name	:	Mixture	
CAS number	:	Mixture	
Other means of identification	:	CC10218527	
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**



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Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
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	:	CC10218527

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	30 - 60	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**

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.



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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
Ingestion	<ul> <li>clothing and shoes. Get medical attention if symptoms occur.</li> <li>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.</li> </ul>
Most important symptoms/effects, acu	ite and delayed
Potential acute health effects	
Eye contact Inhalation Skin contact Ingestion Over-exposure signs/symptoms	<ul> <li>No known significant effects or critical hazards.</li> <li>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>
Eye contact Inhalation	<ul><li>No specific data.</li><li>No specific data.</li></ul>
Skin contact	No specific data.
Ingestion	No specific data.
Indication of immediate medical atte	ntion 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 toxicological information (Section	n 11)

See toxicological information (Section 11)

## Section 5. Fire-fighting measures



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#### 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 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 containme	ent ai	nd 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.
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

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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
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
	ACGIH TLV (1996-05-18)
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:
	Permissible Exposure Level 10 mg/m3
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker
	exposure to airborne contaminants.
Environmental exposure controls	: 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,
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filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Individual protection measures **Hygiene measures** 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. **Eye/face protection** 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 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. **Body protection** 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. Appropriate footwear and any additional skin protection measures Other skin protection should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Use a properly fitted, particulate filter respirator complying with an **Respiratory protection** 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

### Section 9. Physical and chemical properties

#### Appearance

Physical state	:	solid [Pellets.]
Color	:	WHITE
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.

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selected respirator.



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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.
		Not available.
Auto-ignition temperature	:	
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available.
-		<b>Kinematic:</b> Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
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 products	:	Under normal conditions of storage and use, hazardous decomposition 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



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Titanium dioxide       LC50 Inhalation       Rat - Male       6.82 Mg/l       4 h         LD50 Dermal       Rabbit       > 5,000 mg/kg       -         Conclusion/Summary       :       Mixture.Not fully tested.       -         Erritation/Corrosion       -       -       -         Skin       :       Mixture.Not fully tested.       -       -         Eyes       :       Mixture.Not fully tested.       -       -         Respiratory       :       Mixture.Not fully tested.       -       -         Skin       :       Mixture.Not fully tested.       -       -         Respiratory       :       Mixture.Not fully tested.       -       -         Skin       :       Mixture.Not fully tested.       -       -       -       -         Skin       :       Mixture.Not fully tested.       -	Product/ingredient name	Result	Species	Dose		Exposure
LD50 Dermal     Rabbit     > 5,000 mg/kg       Conclusion/Summary     :     Mixture.Not fully tested.       Irritation/Corrosion     Irritation/Corrosion       Conclusion/Summary     :     Mixture.Not fully tested.       Eyes     :     Mixture.Not fully tested.       Respiratory     :     Mixture.Not fully tested.       Stin     :     Mixture.Not fully tested.       Sensitization     Conclusion/Summary       Skin     :     Mixture.Not fully tested.       Respiratory     :     Mixture.Not fully tested.       Stain     :     Mixture.Not fully tested.       Gonclusion/Summary     :     Mixture.Not fully tested.       Conclusion/Summary     :     Mixture.Not fully tested.       Carcinogenicity     :     Conclusion/Summary       Conclusion/Summary     :     Mixture.Not fully tested.       Carcinogenicity     :     Mixture.Not fully tested.       Carcinogenicity     :     IARC     NTP       Inname     :     :     :       Product/ingredient     OSHA     IARC     NTP       Inname     :     :     :       Conclusion/Summary     :     Mixture.Not fully tested.       Teratogenicity     :     :     :       Conclusion/		•		ł		· •
LD50 Dermal       Rabbit       > 5,000 mg/kg       -         Conclusion/Summary       :       Mixture.Not fully tested.       -         Irritation/Corrosion       -       -       -         Conclusion/Summary       :       Mixture.Not fully tested.       -         Eyes       :       Mixture.Not fully tested.       -       -         Respiratory       :       Mixture.Not fully tested.       -       -         Skin       :       Mixture.Not fully tested.       -       -         Respiratory       :       Mixture.Not fully tested.       -       -         Skin       :       :       Mixture.Not fully tested.       -       -         Mutagenicity       :       Mixture.Not fully tested.       -       -       -         Conclusion/Summary       :       Mixture.Not fully tested.       -       -       -       -         Conclusion/Summary       :       Mixture.Not fully tested.       -		LC50 Inhalation	Rat - Male	6.82 N	/Ig/l	4 h
Irritation/Corrosion         Conclusion/Summary         Skin       :         Mixture.Not fully tested.         Eyes       :         Respiratory       :         Mixture.Not fully tested.         Respiratory       :         Skin       :         Stature.Not fully tested.         Respiratory       :         Mixture.Not fully tested.         Respiratory       :         Mixture.Not fully tested.         Mutagenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Classification         Product/ingredient       OSHA         IARC       NTP         name       12B         Reproductive toxicity       2B         Conclusion/Summary       :         Mixture.Not fully tested.       Conclusion/Summary         Conclusion/Summary       :         Mixture.Not fully tested.       Conclusion/Summary         Conclusion/Summary       :         Mixture.Not fully tested.       Conclusion/Summary         Conclusion/Summary		LD50 Dermal	Rabbit			-
Conclusion/Summary       Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization       :       Sensitization         Conclusion/Summary       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       :       Conclusion/Summary         Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Conclusion/Summary         Conclusion/Summary       :       Mixture.Not fully tested.         Cassification       :       Product/ingredient         Product/ingredient       OSHA       IARC       NTP         intanum dioxide       :       2B       :         Reproductive toxicity       :       Mixture.Not fully tested.       :         Conclusion/Summary       :       Mixture.Not fully tested.       :         Teratogenicity       :       Mixture.Not fully tested.       :         Conclusion/Summary       :       Mixture.Not fully tested.       :         Specific target organ tox	Conclusion/Summary	: Mixt	ure.Not fully t		0 0	
Skin       :       Mixture.Not fully tested.         Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization	Irritation/Corrosion					
Eyes       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Sensitization	Conclusion/Summary					
Respiratory       :       Mixture.Not fully tested.         Sensitization       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Mutagenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Product/ingredient       OSHA       IARC       NTP         name       :       2B	Skin					
Sensitization         Conclusion/Summary         Skin       :         Mixture.Not fully tested.         Respiratory       :         Mutagenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Cassification         Product/ingredient       OSHA         IARC       NTP         name       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.						
Conclusion/Summary       Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Cassification       1       IARC       NTP         Product/ingredient       OSHA       IARC       NTP         Titanium dioxide       2B           Reproductive toxicity       2B           Conclusion/Summary       :       Mixture.Not fully tested.          Teratogenicity       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.	Respiratory	: Mixt	ure.Not fully t	ested.		
Skin       :       Mixture.Not fully tested.         Respiratory       :       Mixture.Not fully tested.         Mutagenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Cassification       OSHA       IARC       NTP         name       2B       Image: Conclusion/Summary       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.       Image: Conclusion/Summary       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.       Image: Conclusion/Summary       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.       Image: Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Not available.       Specific target organ toxicity (repeated exposure) Not available.       Specific target organ toxicity (repeated exposure) Not available.	<u>Sensitization</u>					
Respiratory       :       Mixture.Not fully tested.         Mutagenicity       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Classification       OSHA       IARC       NTP         Product/ingredient       OSHA       IARC       NTP         Titanium dioxide       2B       Image: Conclusion/Summary       :         Reproductive toxicity       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Not available.         Specific target organ toxicity (repeated exposure) Not available.       Source is the second of the s	Conclusion/Summary					
Mutagenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Carcinogenicity         Conclusion/Summary       :         Mixture.Not fully tested.         Classification         Product/ingredient       OSHA         IARC       NTP         name         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.						
Conclusion/Summary       :       Mixture.Not fully tested.         Carcinogenicity       :       Mixture.Not fully tested.         Classification       :       Mixture.Not fully tested.         Product/ingredient       OSHA       IARC       NTP         name       :       2B       Itanium dioxide       2B         Reproductive toxicity       :       Mixture.Not fully tested.       Itanium dioxide       2B         Reproductive toxicity       :       Mixture.Not fully tested.       Itanium dioxide       Itanium dioxide       Itanium dioxide       Itanium dioxide         Specific target organ toxicity (single exposure) Not available.       Mixture.Not fully tested.       Specific target organ toxicity (repeated exposure) Not available.       Not available.	Respiratory	: Mixt	ure.Not fully t	ested.		
Carcinogenicity         Conclusion/Summary       :       Mixture.Not fully tested.         Classification         Product/ingredient       OSHA       IARC         NTP         name       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.	<b>Mutagenicity</b>					
Conclusion/Summary       :       Mixture.Not fully tested.         Classification       OSHA       IARC       NTP         name       2B       2B         Reproductive toxicity       2B       Conclusion/Summary       :         Mixture.Not fully tested.       Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Not available.       Specific target organ toxicity (repeated exposure) Not available.	Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Classification       OSHA       IARC       NTP         name       2B       2B       2B         Reproductive toxicity       2B       2B       2B         Reproductive toxicity       Kixture.Not fully tested.       Kixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Not available.       Specific target organ toxicity (repeated exposure) Not available.	<b>Carcinogenicity</b>					
Product/ingredient       OSHA       IARC       NTP         name       Titanium dioxide       2B       Image: Conclusion/Summary       2B         Reproductive toxicity       Conclusion/Summary       :       Mixture.Not fully tested.         Teratogenicity       Conclusion/Summary       :       Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.       Mixture exposure)       Not available.		: Mixt	ure.Not fully t	ested.		
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.	Product/ingredient	OSHA I	ARC	NTP		
Conclusion/Summary       : Mixture.Not fully tested.         Teratogenicity	Titanium dioxide	2	В			
Teratogenicity         Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure) Not available.	<u>Reproductive toxicity</u>					
Conclusion/Summary       : Mixture.Not fully tested.         Specific target organ toxicity (single exposure) Not available.         Specific target organ toxicity (repeated exposure) Not available.	Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Specific target organ toxicity (single exposure)         Not available.         Specific target organ toxicity (repeated exposure)         Not available.	<b>Teratogenicity</b>					
Not available.         Specific target organ toxicity (repeated exposure)         Not available.	Conclusion/Summary	: Mixt	ure.Not fully t	ested.		
Not available.		ty (single exposure)				
		ty (repeated exposu	<u>re)</u>			
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Aspiration hazard 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.
Skin contact	:	Serious effects may be delayed following exposure. No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, ch	nemi	cal and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects and a	also c	chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	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 Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
rentry checto	•	To known significant creets of critical hazarus.



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Numerical measures of toxicity

Acute toxicity estimates

Not available.

## Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure		
Titanium dioxide					
	Acute LC50 > 1,000,000 µg/l	Fish - Mummichog	96 h		
	Marine water				
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h		
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h		
TPE WHITE					
Remarks - Acute - Aquatic	Chemicals are not readily available a	s they are bound within the	polymer matrix.		
invertebrates.:					
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				
Persistence and degradability	<u>7</u>				
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.				



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Product/ingredient name	LogPow	BCF	Potential
1 Toutet/Ingreatent name	Lugiuw	DCI	1 otentiai
Titanium dioxide		352.00	low

#### **Mobility in soil**

r · · · · · · · · · · · · · · · · · · ·	:	Not available.
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods:The generation of waste should be avoided or possible. Disposal of this product, solutions a should at all times comply with the requirement protection and waste disposal legislation and authority requirements. Dispose of surplus an products via a licensed waste disposal contract disposed of untreated to the sewer unless fully requirements of all authorities with jurisdiction should be recycled. Incineration or landfill sh when recycling is not feasible. This material a disposed of in a safe way. Empty containers of product residues. Avoid dispersal of spilled in contact with soil, waterways, drains and sewer
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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

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United States - TSCA 4(a) - Proposed test rules: 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 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(d) - Health and safety studies: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed 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)	:	Not listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
Clean Air Act Section 602 Class II	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed
Chemicals)		

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

not applicable

#### SARA 311/312



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Classification

Not applicable.

:

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

Name	%	Classification
Titanium dioxide	30 - 60	СН

SARA 313 Not applicable.

State regulations		
Massachusetts	:	The following components are listed:
		Titanium dioxide
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Titanium dioxide
Pennsylvania	:	The following components are listed:
-		Titanium dioxide

#### California Prop. 65

WARNING: This product contains a chemical 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		
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>Korea inventory: 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> </ul>
Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals	:	Not listed

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Chemical Weapons Convention List Schedule III Chemicals : Not listed

### Section 16. Other information

<u>History</u>		
Date of printing	:	05/16/2015
Date of issue/Date of revision	:	05/15/2015
Date of previous issue	:	00/00/0000
Version	:	1.0
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 Not available.
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