ORANGE

Version Number 1.6 Revision Date 11/07/2019

ne

Page 1 of 15 Print Date 11/08/2019

SAFETY DATA SHEET

ORANGE

Section 1. Identificati	on	
CHE meduat identifian		ORANGE
GHS product identifier Chemical name	:	Mixture
		Mixture
CAS number	•	
Other means of identification	:	CC10107114
Product type	:	solid
<u>Relevant identified uses of the sub</u> Product use	stance :	or mixture and uses advised against 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).

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		
Signal word	:	No signal word.
		1/15

ORANGE

Version Number 1.6 Revision Date 11/07/2019

Page 2 of 15 Print Date 11/08/2019

Hazard statements

No known significant effects or critical hazards.

Precautionary statements

General		Not applicable.
0 1 1 1 1 1 1 1 1	•	11
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10107114

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	1 - 3	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.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable

ORANGE



Revision Date 11/07/2019 Print Date 11/08/20 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 : Ingestion : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. : 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	ONANGE	
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 contaminate clothing and shoes. Get medical attention if symptoms occur. Ingestion : Wash out mouth with water. Remove victims to fresh air and keep at rest in a position confortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantitie 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 : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No specific data. Inges		Page 3 of 15 Print Date 11/08/2019
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. Ingestion : Wash out mouth with 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 quantiti 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 : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. 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. Ingestion : No specific data. Ingestion : No specific data. Ingestion : 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 specific treatment.		
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. Ingestion : Wash out mouth with 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 quantiti 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 : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. 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. Ingestion : No specific data. Skin contact : No specific data. Ingestion : No specific data. Ingestion : No specific data. Ingestion : No specific data. Ingestion : No specific data. Specific treatments : No specific data. Indication of immediate medical attention and special treatment needed, if necessary medical surveillance for 48 hours. Specific treatments : No specific treatment. Protection of first-aiders : No specific treatment.		
delayed. The exposed person may need to be kept under medical surveillance for 48 hours.Skin contact:Ingestion:Wash out mouth with water. Remove vicitum 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 quantitie 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 delavedPotential acute health effectsEye contact:No known significant effects or critical hazards.Ingestion:No specific data.Inhalation:No specific data.Inhalation:No specific data.Ingestion:No specific data.Ingestion:No specific data.Ingestion:No specific data.Ingestion:In case of inhalation of decomposition products in a fire		
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 quantitie 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 delavedPotential acute health effectsEye contact:Inhalation:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Inhalation:No specific data.Inhalation:No specific data.Inhalation:No specific data.Ingestion: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		delayed. The exposed person may need to be kept under medical
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 quantitie 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 delayedPotential acute health effectsEye contact:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact:Inhalation:No specific data.Inhalation:No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes to physician:In case of inhalation of decomposition products in a fire, symptoms medical surveillance for 48 hours.Specific treatments:No specific treatment.Protection of first-aiders:No action shall be taken involving any	Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated
rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantitie 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 : No known significant effects or critical hazards. 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. Inhalation : No specific data. Inhalation : No specific data. Ingestion : No specific data. Ingestion : 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 specific treatment.	Ingestion	
Potential acute health effectsEye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptoms:No specific data.Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.Ingestion:No specific data.Skin contact:No specific data.Ingestion:No specific data.Indication of immediate medical attertor and special treatment needed, if necessaryNotes 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.	Ingestion	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
Potential acute health effects Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms : No known significant effects or critical hazards. Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. Ingestion : 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.	Most important symptoms/effects, acut	te and delaved
Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptoms:No specific data.Eye contact:No specific data.Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.Ingestion:No specific data.Skin contact:No specific data.Ingestion:No specific data.Ingestion:No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes 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.		
Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptomsEye 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 necessaryNotes 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.	Potential acute health effects	
Skin contact Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptomsEye contact Inhalation:No specific data.Skin contact Ingestion:No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes 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.		
Ingestion:No known significant effects or critical hazards.Over-exposure signs/symptomsEye 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 necessaryNotes 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.		
Over-exposure signs/symptomsEye 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 necessaryNotes 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.		
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 necessaryNotes 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.	ingestion	. No known significant cricers of critical nazards.
Inhalation:No specific data.Skin contact:No specific data.Ingestion:No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes 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.	Over-exposure signs/symptoms	
Skin contact:No specific data.Ingestion:No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes 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.	Eye contact	: No specific data.
Ingestion: No specific data.Indication of immediate medical attention and special treatment needed, if necessaryNotes 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.	Inhalation	: 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 : Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.	Skin contact	: No specific data.
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.	Ingestion	: No specific data.
Specific treatments: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.	Indication of immediate medical atter	ntion and special treatment needed, if necessary
Specific treatments: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.	Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms
Specific treatments:No specific treatment.Protection of first-aiders:No action shall be taken involving any personal risk or without suitable training.		may be delayed. The exposed person may need to be kept under
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.	Encoific treatments	
suitable training.	Specific treatments	i no specific treatment.
See toxicological information (Section 11)	Protection of first-aiders	
	See toxicological information (Section	4 11)

Section 5. Firefighting measures

Extinguishing media

ORANGE



Version Number 1.6 Revision Date 11/07/2019		Page 4 of 15 Print Date 11/08/2019
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 specialized 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 containn	nent a	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 licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
		4/15

ORANGE

Version Number 1.6 Revision Date 11/07/2019



Page 5 of 15 Print Date 11/08/2019

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) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 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, filters or engineering modifications to the process equipment will be

ORANGE



. 11

Version Number 1.6	Page 6 of 15
Revision Date 11/07/2019	Print Date 11/08/2019

		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.
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.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

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

ORANGE

Version Number 1.6 Revision Date 11/07/2019

PolyOne

Page 7 of 15 Print Date 11/08/2019

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.
Aerosol product		
Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time	:	Not available.
equivalent		
Enclosed space ignition -	:	Not available.
Deflagration density		
Flame height	:	Not available.
Flame duration		Not available.
whe where	-	

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.
		7/4 5

ORANGE

Version Number 1.6 Revision Date 11/07/2019

Page 8 of 15 Print Date 11/08/2019

<u>yOne</u>

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
Titanium dioxide				
Remarks - Oral:	No applicable toxic	city data		
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Conclusion/Summary	: Mixtu	re.Not fully tested.		

Conclusion/Summary

Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild	Human		72 hrs	-
	irritant				
Conclusion/Summary					
Skin		lixture.Not fu			
Eyes		lixture.Not fu			
Respiratory	: N	lixture.Not fu	ally tested.		
Sensitization					
Conclusion/Summary					
Skin	: N	lixture.Not fu	ally tested.		
Respiratory	: N	lixture.Not fu	ally tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: N	lixture.Not fu	ally tested.		
Carcinogenicity					
Conclusion/Summary	: N	lixture.Not fu	ally tested.		
Classification					
Product/ingredient name	OSHA	IARC	NTP		

ORANGE

PolyOne

Version Number 1.6 Revision Date 11/07/2019 Page 9 of 15 Print Date 11/08/2019

Titanium dioxide	-		2B	-
Reproductive toxicity				
Reproductive toxicity				
Conclusion/Summary	:	Mi	xture.Not fully t	ested.
Teratogenicity				
Conclusion/Summary	:	Mi	xture.Not fully t	ested.
Specific target organ toxicity (Not available.	single expo	sur	<u>e)</u>	
Specific target organ toxicity (Not available.	repeated ex	<u>tpos</u>	sure)	
Aspiration hazard Not available.				
Information on likely routes of exposure	f :	No	ot available.	
Potential acute health effects				
Eye contact	:	No	known significa	ant effects or critical hazards.
Inhalation	:			int effects or critical hazards.
Skin contact	:	No	known significa	int effects or critical hazards.
Ingestion	:	No	known significa	nt effects or critical hazards.
Symptoms related to the physi	cal, chemic	al a	and toxicological	l characteristics
Eye contact	:	No	specific data.	
Inhalation	:		specific data.	
Skin contact	:		specific data.	
Ingestion	:	No	specific data.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Short term exposure				
Potential immediate effects Potential delayed effects	:		ot available. ot available.	
Long term exposure				

ORANGE

Version Number 1.6 Revision Date 11/07/2019 <u>PolyOne</u>

Page 10 of 15 Print Date 11/08/2019

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.

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Result	Species	Exposure
Acute LC50 > 1,000 Mg/l Marine water	Fish - Fish	96 h
Acute		
Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Acute		
Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Acute		
No applicable toxicity data		
No applicable toxicity data		
No applicable toxicity data		
	Acute LC50 > 1,000 Mg/l Marine water Acute Acute LC50 3 Mg/l Fresh water Acute Acute LC50 6.5 Mg/l Fresh water Acute No applicable toxicity data No applicable toxicity data	Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Acute Aquatic invertebrates. Crustaceans Acute Aquatic invertebrates. Crustaceans Acute Aquatic invertebrates. Daphnia Acute No applicable toxicity data

ORANGE

Version Number 1.6 Revision Date 11/07/2019

PolyOne.

Page 11 of 15 Print Date 11/08/2019

ORANGE			
Remarks - Acute - Aquatic invertebrates.:	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.		
Persistence and degradability			
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.		
Bioaccumulative potential Not available.			
Mobility in soil			
Soil/water partition coefficien (KOC)	nt : Not available.		
Other adverse effects	: No known significant effects or critical hazards.		
Section 13. Disposal considerations			

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

ORANGE

Version Number 1.6 Re

PolyOne.

ersion Number 1.6	Page 12 of 15
evision Date 11/07/2019	Print Date 11/08/2019

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods 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) - Final Test Kules. Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(a) - Froposed test fulles. Not listed
		United States - TSCA 4(1) - Friolity fisk 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
		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 - EPA Clean water act (CWA) section 307 - Priority
		pollutants: Listed Rutile, antimony chromium buff
		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

ORANGE

<u>PolyOne</u>

Version Number 1.6 Revision Date 11/07/2019 Page 13 of 15 Print Date 11/08/2019

United States - Department of commerce - Precursor chemical:	
Not listed	

Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I	:	Not listed
Substances		NT / 11 / 1
Clean Air Act Section 602 Class II Substances	:	Not listed
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

Classification

Not applicable.

:

Composition/information on ingredients

No products were found.

Name	%	Classification
Titanium dioxide	>= 1 - <= 3	CARCINOGENICITY - Category 2
	1	

SARA 313

Form R - Reporting requirements

Product name	CAS number	%
Rutile, antimony chromium buff	68186-90-3	>= 1 - <= 3

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	:	None of the components are listed.
New York	:	None of the components are listed.

ORANGE

<u>PolyOne</u>

Version Number 1.6	Page 14 of 15
Revision Date 11/07/2019	Print Date 11/08/2019

New Jersey	:	The following components are listed: Titanium dioxide
Pennsylvania	:	Rutile, antimony chromium buff The following components are listed: Titanium dioxide

Rutile, antimony chromium buff

California Prop. 65

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
<u>Inventory list</u>		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0
	,	1//15



ORANGE

Version Number 1.6 Revision Date 11/07/2019 Page 15 of 15 Print Date 11/08/2019

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

Date of printing	:	11/08/2019
Date of issue/Date of revision	:	11/07/2019, 11/07/2019
Date of previous issue	:	03/01/2019
Version	:	1, 1.6, 6
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 = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = 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

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the 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.