PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 1 of 16 Print Date 04/07/2018

SAFETY DATA SHEET

XRU-2599 FEP NP-108 CC HIGH STR GREEN

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	: : :	XRU-2599 FEP NP-108 CC HIGH STR GREEN Mixture Mixture CC10280952 solid
<u>Relevant identified uses of the subs</u> Product use	tance:	e or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	Colorant Chromatics Chromatics, Inc. 19 Francis J. Clarke Circle, Bethel, CT 06801, USA
Emergency telephone number (with hours of operation)	:	+1 800 242 2296 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. Fluoropolymers heated above 350 C can evolve hydrogen fluoride and carbonyl fluoride as degradation products. Processing at elevated temperatures may release fumes that can cause polymer fume fever. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. 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.

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 2 of 16 Print Date 04/07/2018

GHS label elements		
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	:	CC10280952

CAS number/other identifiers

Ingredient name	%	CAS number
Cobalt titanate green spinel (Ni $> 0.1\%$)	10 - 25	68186-85-6
Titanium dioxide	0.3 - 1	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 Colorant Chromatics

Version Number 1.0	Page 3 of 16
Revision Date 04/06/2018	Print Date 04/07/2018

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	: 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.
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 toxicological information (Section 11)

Section 5. Firefighting measures

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 4 of 16 Print Date 04/07/2018

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$. 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 sulfur oxides halogenated compounds 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 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.
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PolyOne Colorant Chromatics

:

Version Number 1.0 Revision Date 04/06/2018 Page 5 of 16 Print Date 04/07/2018

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
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



Version Number 1.0 Revision Date 04/06/2018 Page 6 of 16 Print Date 04/07/2018

Cobalt titanate green spinel (Ni > 0.1%	 OSHA PEL (1993-06-30) as Ni PEL: Permissible Exposure Level 1 mg/m3 OSHA PEL 1989 (1989-03-01) as Ni PEL: Permissible Exposure Level 0.1 mg/m3 Form: Soluble ACGIH TLV (1994-09-01) as Co TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.02 mg/m3 ACGIH TLV (1998-09-01) as Ni TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.1 mg/m3 Form: Inhalable fraction OSHA PEL (1993-06-30) as Ni PEL: Permissible Exposure Level 1 mg/m3 OSHA PEL 1989 (1989-03-01) as Ni PEL: Permissible Exposure Level 1 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 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.

6/16

PolyOne Colorant Chromatics

Version Number 1.0	Page 7 of 16
Revision Date 04/06/2018	Print Date 04/07/2018

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.
 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	:	GREEN
Odor	:	Not available.
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.
	:	Upper: Not available. Not available.
(flammable) limits	:	
(flammable) limits Vapor pressure	:	Not available.
(flammable) limits Vapor pressure Vapor density	:	Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density	:	Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility	:	Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water	:	Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n-	: : : : : : : : : : : : : : : : : : : :	Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n- octanol/water		Not available. Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature		Not available. Not available. Not available. Not available. Not available. Not available.
(flammable) limits Vapor pressure Vapor density Relative density Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature		Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

Section 10. Stability and reactivity

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Reactivity

No specific test data related to reactivity available for this product or its ingredients.

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 8 of 16 Print Date 04/07/2018

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 Incompatible materials	:	Keep away from extreme heat and oxidizing agents. 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

Product/ingredient name	Result	Species	Dose	Exposure			
Titanium dioxide							
Remarks - Oral:	No applicable toxicity data						
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h			
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-			
Cobalt titanate green spinel (N	i > 0.1%)						
Remarks - Oral:	I: No applicable toxicity data						
Remarks - Inhalation:	No applicable toxicity data						
Remarks - Dermal:	No applicable toxicity data						
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	: N	lixture.Not fu	lly tested.			
Eyes	: N	lixture.Not fu	lly tested.			
Respiratory	: Mixture.Not fully tested.					
<u>Sensitization</u>						
Conclusion/Summary						
Skin	: N	lixture.Not fu	lly tested.			

8/16

PolyOne Colorant Chromatics

Version Number 1.0	Page 9 of 16
Revision Date 04/06/2018	Print Date 04/07/2018

Respiratory	:]	Mixture.Not fully	v tested.		
Mutagenicity					
Conclusion/Summary	:]	Mixture.Not fully	v tested.		
Carcinogenicity					
Conclusion/Summary Classification	: 1	Mixture.Not fully	v tested.		
Product/ingredient name	OSHA	IARC	NTP		
Titanium dioxide		2B			
Cobalt titanate green $C_{i} = 0.19(1)$					
spinel (Ni > 0.1%)					
<u>Reproductive toxicity</u>					
Conclusion/Summary	:]	Mixture.Not fully	v tested.		
Teratogenicity					
Conclusion/Summary	: 1	Mixture.Not fully	tested.		
Specific target organ toxicity Not available.	y (single expos	<u>sure)</u>			
Specific target organ toxicity Not available.	y (repeated ex	posure)			
Aspiration hazard Not available.					
Information on likely routes exposure	of :]	Not available.			
Potential acute health effects					
Eye contact Inhalation Skin contact Ingestion	 No known significant effects or critical hazards. 				
Symptoms related to the phy	sical, chemica	l and toxicologic	cal characteristics		
Eye contact	: No specific data.				

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 10 of 16 Print Date 04/07/2018

Inhalation	:	No specific data.
Skin contact	:	No 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	:	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 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 Mg/l Marine	Fish - Fish	96 h			
	water					
Remarks - Acute - Fish:	Acute					
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h			
	· · · · · ·	•	•			

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 11 of 16 Print Date 04/07/2018

			Crustaceans			
Remarks - Acute - Aquatic	Acute					
invertebrates.:						
	Acute LC5	0 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h		
			Daphnia			
Remarks - Acute - Aquatic	Acute					
invertebrates.:						
Remarks - Acute - Aquatic	No applica	ble toxicity data				
plants:						
Remarks - Chronic - Fish:	No applica	ble toxicity data				
Remarks - Chronic -	No applica	ble toxicity data				
Aquatic invertebrates.:		·				
Cobalt titanate green spinel (N	i > 0.1%)					
Remarks - Acute - Fish:	No applica	ble toxicity data				
Remarks - Acute - Aquatic		ble toxicity data				
invertebrates.:		-				
Remarks - Acute - Aquatic	No applica	ble toxicity data				
plants:		-				
Remarks - Chronic - Fish:	No applica	ble toxicity data				
Remarks - Chronic -	No applicable toxicity data					
Aquatic invertebrates.:	-					
XRU-2599 FEP NP-108 CC H						
Remarks - Acute - Aquatic	Chemicals	Chemicals are not readily available as they are bound within the polymer matrix.				
invertebrates.:						
Conclusion/Summary	:	Chemicals are not read	ily available as they are bou	nd within the		
		polymer matrix.				
Persistence and degradability						
		C1	1 1. 1			
Conclusion/Summary	:	polymer matrix.	ily available as they are bou	ind within the		
		porymer maurx.				
Conclusion/Summary	:	Chemicals are not read	ily available as they are bou	nd within the		
Conclusion/Summary	•	polymer matrix.	iny available as they are bot			
		Polymor maann				
Bioaccumulative potential						
Not available.						
<u>Mobility in soil</u>						
~ • • • • • • • • • • • • • • • • • • •		X				
Soil/water partition coefficie	ent :	Not available.				
(KOC)		N. I.				
Other adverse effects	:	no known significant e	effects or critical hazards.			

11/16

PolyOne Colorant Chromatics

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Version Number 1.0 Revision Date 04/06/2018 Page 12 of 16 Print Date 04/07/2018

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

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

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

PolyOne Colorant Chromatics

Version Number 1.0	Page 13 of 16
Revision Date 04/06/2018	Print Date 04/07/2018

		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 - Proposed 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(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 Cobalt titanate green spinel (Ni > 0.1%) 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)	:	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 Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

PolyOne. Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 14 of 16 Print Date 04/07/2018

Name	%	Classification
Titanium dioxide	0.3 - 1	СН
Cobalt titanate green spinel (Ni > 0.1%)	10 - 25	СН

SARA 313

	Product name	CAS number	%
Form R - Reporting	Cobalt titanate green spinel	68186-85-6	10 - 25
requirements	(Ni > 0.1%)		
Supplier notification	Cobalt titanate green spinel	68186-85-6	10 - 25
	(Ni > 0.1%)		

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.	
New Jersey	: The following components are listed: Cobalt titanate green spinel (Ni > 0. Titanium dioxide	
Pennsylvania	: The following components are listed: Cobalt titanate green spinel (Ni > 0.	
	Titanium dioxide	

<u>California Prop. 65</u>

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		
<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	:	All components are listed or exempted.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.

PolyOne Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 15 of 16 Print Date 04/07/2018

Republic of Korea	: All components are listed or ex	cempted.
Taiwan	: All components are listed or ex	cempted.
Turkey	: Not determined.	
United States	: All components are listed or ex	cempted.

Section 16. Other information

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



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

<u>IIIStol y</u>		
Date of printing	:	04/07/2018
Date of issue/Date of revision	:	04/06/2018
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 = 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

PolyOne. Colorant Chromatics

Version Number 1.0 Revision Date 04/06/2018 Page 16 of 16 Print Date 04/07/2018

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.