UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 1 of 16 Print Date 11/26/2018

SAFETY DATA SHEET

UV METALLIC SILVER PE

Section 1. Identification	on	
GHS product identifier Chemical name CAS number Other means of identification Product type	:	UV METALLIC SILVER PE Mixture Mixture CC10276003 solid
••	stance :	e 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.
		1/16

UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 2 of 16 Print Date 11/26/2018

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	:	CC10276003

CAS number/other identifiers

Ingredient name	%	CAS number
Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-	3 - 5	Not available.
diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-		
hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]]		
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.



UV METALLIC SILVER PE

Version Number 1.1	Page 3 of 16
Revision Date 09/17/2018	Print Date 11/26/2018

		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.
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 Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical atto	entio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 .
Unsuitable extinguishing media	:	None known.

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UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 4 of 16 Print Date 11/26/2018

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 phosphorus 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 Methods and materials for containm	: nent ar	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).
Small spill Large 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. 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.



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 5 of 16 Print Date 11/26/2018

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
Poly[[6-[(1,1,3,3- tetramethylbutyl)amino]-1,3,5-triazine- 2,4-diyl][(2,2,6,6-tetramethyl-4- piperidinyl)imino]-1,6- hexanediyl[(2,2,6,6	None.
Appropriate engineering controls:Environmental exposure controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be
	5/16

PolyOne.

UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018	Page 6 of 16 Print Date 11/26/2018
	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.
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 Color	: solid [Pellets.] : GREY
Odor	: Faint odor.
Odor threshold	: Not available.
pН	: Not available.

6/16

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UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 7 of 16 Print Date 11/26/2018

Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	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



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 8 of 16 Print Date 11/26/2018

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide		· _	·	
Remarks - Oral:	No applicable toxi	city data		
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Poly[[6-[(1,1,3,3-tetramethylb	utyl)amino]-1,3,5-tri	azine-2,4-diyl][(2,2,6,6	6-tetramethyl-4-piperic	linyl)imino]-1,6-
hexanediyl[(2,2,6,6-tetramethy	l-4-piperidinyl)imin	o]]		
	LD50 Oral	Rat	9,910 mg/kg	-
	LC50 Inhalation	Rat	0.112 Mg/l	4 h
Remarks - Dermal:	No applicable toxi	city data		
Conclusion / Summer own	Minte	we Not fully tested		

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Result	Species	Score	Exposure	Observation
Skin - Mild irritant	Human		72 hrs	-
Skin - Mild irritant	Rabbit			-
			·	·
		•		
: N	lixture.Not fu	ally tested.		
: N	lixture.Not fu	illy tested.		
	Skin - Mild irritant Skin - Mild irritant : M : M : M : M : M	Skin - Mild Human irritant Rabbit Skin - Mild Rabbit irritant Rabbit : Mixture.Not fu : Mixture.Not fu	Skin - Mild Human irritant Rabbit Skin - Mild Rabbit irritant Rabbit : Mixture.Not fully tested. : Mixture.Not fully tested.	Skin - Mild irritant Human 72 hrs Skin - Mild irritant Rabbit 72 hrs : Mixture.Not fully tested. 71 hrs



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 9 of 16 Print Date 11/26/2018

Product/ingredient OSE	IA	IARC	NTP
name Titanium dioxide		2B	
Titanium dioxide		2 B	
Reproductive toxicity			
Conclusion/Summary	: 1	Mixture.Not fu	lly tested.
<u>Teratogenicity</u>			
Conclusion/Summary	: 1	Mixture.Not fu	lly tested.
Specific target organ toxicity (sing Not available.	<u>le expos</u>	<u>ure)</u>	
Specific target organ toxicity (repe Not available.	eated exp	posure)	
Aspiration hazard Not available.			
Information on likely routes of exposure	: 1	Not available.	
Potential acute health effects			
Eye contact	: 1	No known sign	ificant effects or critical hazards.
Inhalation			ificant effects or critical hazards.
Skin contact	: 1	No known sign	ificant effects or critical hazards.
Ingestion	: 1	No known sign	ificant effects or critical hazards.
Symptoms related to the physical, o	chemica	l and toxicolog	gical characteristics
Eye contact	: 1	No specific data	a.
Inhalation		No specific dat	
Skin contact		No specific dat	
Ingestion		No specific data	
Delayed and immediate effects as v	vell as cl	nronic effects	from short and long-term exposure
Short term exposure			
Potential immediate effects	: 1	Not available.	
Potential delayed effects		Not available.	



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 10 of 16 Print Date 11/26/2018

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	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical massures of toxicity		

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 water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 11 of 16 Print Date 11/26/2018

No applicable toxicity data				
No applicable toxicity data				
No applicable toxicity data				
utyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-				
yl-4-piperidinyl)imino]]				
No applicable toxicity data				
No applicable toxicity data				
No applicable toxicity data				
No applicable toxicity data				
No applicable toxicity data				
Chemicals are not readily available as they are bound within the polymer matrix.				
Chemicals are not readily available as uncy are bound within the polymer matrix.				
: Chemicals are not readily available as they are bound within the polymer matrix.				
 Chemicals are not readily available as they are bound within the polymer matrix. 				
: Chemicals are not readily available as they are bound within the polymer matrix.				
ent : Not available.				

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
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UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 12 of 16 Print Date 11/26/2018

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	:	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) - ITC Priority list: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - TSCA 4(f) - Priority risk review: Not listed
		United States - TSCA 5(a)2 - Final significant new use rules: Not
		listed
		United States - TSCA 5(a)2 - Proposed significant new use rules:
		Not listed
		United States - TSCA 5(e) - Substances consent order: Not listed
		United States - TSCA 6 - Final risk management: Not listed
		United States - TSCA 6 - Proposed risk management: Not listed
		United States - TSCA 8(a) - Chemical risk rules: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed

PolyOne

UV METALLIC SILVER PE

Version Number 1.1	Page 13 of 16
Revision Date 09/17/2018	Print Date 11/26/2018

		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: Not listed
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: 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
2(b)	:	Listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Listed
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 Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

: Not applicable.

Composition/information on ingredients

Name	%	Classification
Titanium dioxide	1 - 3	СН
Poly[[6-[(1,1,3,3-	3 - 5	AH
tetramethylbutyl)amino]-1,3,5-		
triazine-2,4-diyl][(2,2,6,6-		
tetramethyl-4-piperidinyl)imino]-		



UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 14 of 16 Print Date 11/26/2018

1,6-hexanediyl[(2,2,6,6-	
tetramethyl-4-piperidinyl)imino]]	

SARA 313

	Product name	CAS number	%
Form R - Reporting	Aluminum	7429-90-5	10 - 25
requirements			
Supplier notification	Aluminum	7429-90-5	10 - 25

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.

Massachusetts : None of the components are listed. New York : None of the components are listed. New Jersey : The following components are listed: Aluminum Mica White mineral oil (petroleum) Titanium dioxide Pennsylvania : The following components are listed: Aluminum Mica Mica Mica 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 : International regulations Inventory list Australia : Cinada : All components are listed or exempted. China : All components are listed or exempted. Europe inventory : All components are listed or exempted. Furge inventory : All components are listed or exempted. Prope inventory : Not determined. China : Prope inventory : New Zealand :	State regulations		
New Jersey : The following components are listed: Aluminum Mica White mineral oil (petroleum) Titanium dioxide Pennsylvania : : The following components are listed: Aluminum Mica Mica Titanium dioxide California Prop. 65 Marking 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 : International regulations : Inventory list : Australia : : All components are listed or exempted. Canada : : All components are listed or exempted. : China : : All components are listed or exempted. : All components are listed	Massachusetts	:	None of the components are listed.
Aluminum Mica White mineral oil (petroleum) Titanium dioxide Pennsylvania : The following components are listed: Aluminum Mica Mica Titanium dioxide California Prop. 65 Marca 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 : International regulations Inventory list Australia : Cinaa : Australia : Cinaa : All components are listed or exempted. China : Europe inventory : All components are listed or exempted. Furope inventory : All components are listed or exempted. Furope inventory : Mit determined. New Zealand :	New York	:	
Aluminum Mica Titanium dioxide 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 : Not determined. International regulations : All components are listed or exempted. Canada : 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.	·	:	Aluminum Mica White mineral oil (petroleum) Titanium dioxide
Titanium dioxide Titanium dioxide MARNING: 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 International regulations Inventory list Australia : All components are listed or exempted. Canada : Not determined. 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.	i chiisyivania	•	Aluminum
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 : Not determined. International regulations Inventory list Australia : Canada : Not determined. China : Europe inventory : Japan : Not determined. Not determined. All components are listed or exempted.			Міса
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 : Not determined. International regulations : Not determined. Inventory list : All components are listed or exempted. Canada : All components are listed or exempted. Canada : 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.			Titanium dioxide
Canada inventory : Not determined. International regulations : All components are listed or exempted. Australia : All components are listed or exempted. Canada : Not determined. 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.		chemi	ical known to the State of California to cause cancer.
International regulations Inventory list Australia : All components are listed or exempted. Canada : Not determined. 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.	United States inventory (TSCA 8b)	:	All components are listed or exempted.
Inventory listAustralia: All components are listed or exempted.Canada: Not determined.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.	Canada inventory	:	Not determined.
Australia:All components are listed or exempted.Canada:Not determined.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.	International regulations		
Canada:Not determined.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.	Inventory list		
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.	Australia	:	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.	Canada	:	
Japan: Not determined.New Zealand: All components are listed or exempted.	China	:	
New Zealand : All components are listed or exempted.		:	
		:	
	New Zealand	:	All components are listed or exempted.
14/16			14/16

UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 15 of 16 Print Date 11/26/2018

Philippines Republic of Korea Taiwan Turkey United States Not determined. Not determined.

: All components are listed or exempted.

: Not determined.

:

:

: All components are listed or exempted.

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	:	11/26/2018
Date of issue/Date of revision	:	09/17/2018
Date of previous issue	:	01/11/2018
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate
•		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = 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 above-

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UV METALLIC SILVER PE

Version Number 1.1 Revision Date 09/17/2018 Page 16 of 16 Print Date 11/26/2018

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