### **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018

ne

Page 1 of 15 Print Date 04/30/2018

# SAFETY DATA SHEET

### VERDE PMS 583

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	VERDE PMS 583 Mixture Mixture CC10213228 solid
••		or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>POLYONE CORPORATION</b> 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

### VERDE PMS 583

Version Number 1.0 Revision Date 04/24/2018

Page 2 of 15 Print Date 04/30/2018

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	:	CC10213228

### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	3 - 5	13463-67-7

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

# Section 4. First aid measures

#### Description of necessary first aid measures

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

## VERDE PMS 583



Version Number 1.0	Page 3 of 15		
Revision Date 04/24/2018	Print Date 04/30/2018		

		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 Inhalation Skin contact Ingestion	::	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.
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 att	entio	n 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

### Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

# **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018



Page 4 of 15

Print Date 04/30/2018

Unsuitable extinguishing media	:	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 containme	ent ar	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.

### **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018



Page 5 of 15 Print Date 04/30/2018

# 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)
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust
	OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust
	NIOSH REL (1994-06-01)
	ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	<ul> <li>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</li> </ul>

# VERDE PMS 583



Version Number 1.0 Revision Date 04/24/2018		Page 6 of 15 Print Date 04/30/2018
		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	: 50	olid [Pellets.]
Color	: N	O PIGMENT
Odor	: F	aint odor.
Odor threshold	: N	ot available.
рН	: N	ot available.
Melting point	: N	ot available.
Boiling point	: N	ot available.
Flash point	: N	ot available.

# **VERDE PMS 583**

Version Number 1.0				
Revision Date	04/24/2018			

# <u>PolyOne</u>

Page 7 of 15 Print Date 04/30/2018

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**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure



# **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 Page 8 of 15 Print Date 04/30/2018

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.		

Mixture.Not fully tested. :

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild	Human		72 hrs	-
	irritant				
Conclusion/Summary	,		11 / / 1		
Skin		lixture.Not fu			
Eyes		lixture.Not fu			
Respiratory	: N	lixture.Not fu	illy tested.		
Sensitization					
Conclusion/Summary					
Skin		lixture.Not fu			
Respiratory	: N	lixture.Not fu	Illy tested.		
Mutagenicity					
Conclusion/Summary	: N	lixture.Not fu	Illy tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary Classification	: N	lixture.Not fu	Illy tested.		
Product/ingredient	OSHA	IARC	NTP		
name	USHA	IAKU	NIF		
Titanium dioxide		2B			
Reproductive toxicity Conclusion/Summary	: N	lixture.Not fu	Illy tested		
Concrusion, Summary	• 1•		ing tobtou.		
<b>Teratogenicity</b>					
Conclusion/Summary	: N	lixture.Not fu	ally tested.		
Specific target organ toxici Not available.	ty (single expost	<u>ure)</u>			

## **VERDE PMS 583**

<u>PolyOne</u>

Version Number 1.0 Revision Date 04/24/2018 Page 9 of 15 Print Date 04/30/2018

<u>Specific target organ toxicity (rep</u> Not available.	eated e	exposure)
Aspiration hazard Not available.		
Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	:	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.
Symptoms related to the physical,	<u>chemi</u>	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion Delayed and immediate effects as w Short term exposure Potential immediate effects Potential delayed effects	: : well as	No specific data. No specific data. No specific data. No specific data. <b>chronic effects from short and long-term exposure</b> 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 Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	: : : : : : : : : : : : : : : : : : : :	No known significant effects or critical hazards. No known significant effects or critical hazards.

# **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 <u>PolyOne</u>

Page 10 of 15 Print Date 04/30/2018

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		
			Crustaceans			
Remarks - Acute - Aquatic	Acute					
invertebrates.:			1			
	Acute LC50	) 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h		
Remarks - Acute - Aquatic	Acute	Acute				
invertebrates.:						
Remarks - Acute - Aquatic	No applicable toxicity data					
plants:						
<b>Remarks - Chronic - Fish:</b>	<u> </u>	No applicable toxicity data				
<b>Remarks - Chronic -</b>	No applicab	No applicable toxicity data				
Aquatic invertebrates.:						
VERDE PMS 583						
Remarks - Acute - Aquatic	Chemicals a	Chemicals are not readily available as they are bound within the polymer matrix.				
invertebrates.:		<u> </u>				
Conclusion/Summary	:	polymer matrix.	ly available as they are bou	nd within the		
Persistence and degradability	<u>v</u>					
Conclusion/Summary	:	Chemicals are not readil polymer matrix.	ly available as they are bou	nd within the		
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.					
		10/15				

### **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018

# PolyOne

Page 11 of 15 Print Date 04/30/2018

### Bioaccumulative potential Not available.

Mobility in soil

Soil/water partition coefficient (KOC) Other adverse effects Not available.

:

:

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

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.

# **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 <u>PolyOne</u>

Page 12 of 15 Print Date 04/30/2018

# Section 15. Regulatory information

U.S. Federal regulations	:	<b>United States - TSCA 12(b) - Chemical export notification:</b> 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 8(a) - Chemical risk rules: Not listed
		United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not
		determined
		United States - TSCA 8(a) - Preliminary assessment report
		(PAIR): Not listed
		United States - TSCA 8(c) - Significant adverse reaction (SAR):
		Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed
		United States - TSCA 6 - Proposed risk management: Not listed
		United States - EPA Clean water act (CWA) section 307 - Priority
		pollutants: Listed Copper, [N,N,N',N',N'',N''-hexaethyl-
		29H,31H-phthalocyanine-C,C,C-trimethanaminato(2-)-
		.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-
		Phthalocyanine Blue
		United States - EPA Clean water act (CWA) section 311 -
		Hazardous substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental
		release prevention - Flammable substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental
		release prevention - Toxic substances: Not listed
		United States - Department of commerce - Precursor chemical:
		Not listed
Clean Air Act Section 112(b)	:	Not listed
Hazardous Air Pollutants (HAPs)	•	
Clean Air Act Section 602 Class I	:	Not listed
Substances	•	The listed
Clean Air Act Section 602 Class II	:	Not listed

## **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 Page 13 of 15 Print Date 04/30/2018

'ne

SubstancesNot listedDEA List I Chemicals (Precursor: Not listedChemicals)DEA List II Chemicals (Essential: Not listedChemicals): 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	3 - 5	СН

#### SARA 313

Not applicable.

State regulations						
Massachusetts	:	None of the components are listed.				
New York	:	None of the components are listed.				
New Jersey	:	The following components are listed: Titanium dioxide				
Pennsylvania	:	The following components are listed:				
•		Titanium dioxide				
<u>California Prop. 65</u> WARNING: This product contains a chemical known to the State of California to cause cancer.						
WARNING. This product contains a c	nenn	cal known to the State of Camornia to cause cancer.				
United States inventory (TSCA 8b)	:	All components are listed or exempted.				
Canada inventory	:	All components are listed or exempted.				
International regulations						
Inventory list						

:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	All components are listed or exempted.
:	Not determined.
	:

13/15



### **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 Page 14 of 15 Print Date 04/30/2018

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	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

# Section 16. Other information

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

Health	/	0
Flammability		0
Physical hazards		0
i hysicui hubui us		Ŭ

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

8 8
8
0
te Toxicity Estimate
concentration Factor
bally Harmonized System of Classification and Labelling of
ernational Air Transport Association
mediate Bulk Container
ternational Maritime Dangerous Goods
ogarithm of the octanol/water partition coefficient
= International Convention for the Prevention of Pollution From
as modified by the Protocol of 1978. ("Marpol" = marine
d Nations
ble.
1 r 1 1 1 3 e



### **VERDE PMS 583**

Version Number 1.0 Revision Date 04/24/2018 Page 15 of 15 Print Date 04/30/2018

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.