### PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 1 of 15 Print Date 02/27/2016

# SAFETY DATA SHEET

#### PG 232378.01 PEARL GN PET AS

Section 1. Identification	on	
GHS product identifier Chemical name CAS number Other means of identification Product type	:	PG 232378.01 PEARL GN PET AS Mixture Mixture CC10235225 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	:	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

## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 2 of 15 Print Date 02/27/2016

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	:	CC10235225

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	10 - 25	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

<u>One</u>

## PG 232378.01 PEARL GN PET AS

Version Number 1.0	Page 3 of 15
Revision Date 02/26/2016	Print Date 02/27/2016

Skin contact		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 Most important symptoms/effects, act	: ute a	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.
whose important symptoms/effects, act	ute a	
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 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. Fire-fighting measures

#### Extinguishing media

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

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## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 4 of 15 Print Date 02/27/2016

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 specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	ent 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.

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## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016

### Page 5 of 15 Print Date 02/27/2016

# 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	: 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

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## PG 232378.01 PEARL GN PET AS

Version Number 1.0	Page 6 of 15
Revision Date 02/26/2016	Print Date 02/27/2016

		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	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

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

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### PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 7 of 15 Print Date 02/27/2016

:	Not available.
:	Not available.
:	Lower: Not available.
	Upper: Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	insoluble in water.
:	Not available.
:	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



## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 8 of 15 Print Date 02/27/2016

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Can alwaitan / Summa any	M.	wa Nat falls tastad		

Conclusion/Summary

: Mixture.Not fully tested.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild	Human		72 hrs	-
	irritant				
<b>Conclusion/Summary</b>					
Skin		lixture.Not ful			
Eyes		lixture.Not ful			
Respiratory	: N	lixture.Not ful	ly tested.		
<b>Sensitization</b>					
Conclusion/Summary					
Skin	: N	lixture.Not ful	ly tested.		
Respiratory	: N	lixture.Not ful	ly tested.		
<b>Mutagenicity</b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
<b>Carcinogenicity</b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
Classification	OCHA	TADO	NUTD		
Product/ingredient name	OSHA	IARC	NTP		
Titanium dioxide		2B			
<b><u>Reproductive toxicity</u></b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
<b>Teratogenicity</b>					
Conclusion/Summary	: N	lixture.Not ful	ly tested.		
Specific target organ toxici Not available.	ty (single exposu	<u>re)</u>			

<u> One</u>

## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016

Page 9 of 15 Print Date 02/27/2016

Specific target organ toxicity (repeation Not available.		
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards
Symptoms related to the physical, cl	hemi	cal and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
<u>Short term exposure</u>		chronic effects from short and long term expos
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
	:	No known significant effects or critical hazards
General		
Carcinogenicity	:	
Carcinogenicity Mutagenicity	:	No known significant effects or critical hazards
Carcinogenicity Mutagenicity Teratogenicity	::	No known significant effects or critical hazards No known significant effects or critical hazards
Carcinogenicity Mutagenicity	:	No known significant effects or critical hazards No known significant effects or critical hazards

<u>One</u>

## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 10 of 15 Print Date 02/27/2016

Numerical measures of toxicity

Acute toxicity estimates

Not available.

# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
	Marine water		
	Acute LC50 > 1,000 mg/l Fresh	Fish - Fish	96 h
	water		
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute LC50 3 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
	Acute EC50 35.306 mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
PG 232378.01 PEARL GN PI			
<b>Remarks - Acute - Aquatic</b>	Chemicals are not readily available a	s they are bound within the	e polymer matrix.
invertebrates.:			
Conclusion/Summary	: Chemicals are not readil	y available as they are bou	nd within the
-	polymer matrix.		



## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 11 of 15 Print Date 02/27/2016

#### Persistence and degradability

Conclusion/Summary	:	Chemicals are not readily available as they are bound within the polymer matrix.
Conclusion/Summary	:	Chemicals are not readily available as they are bound within the polymer matrix.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

#### <u>Mobility in soil</u>

Soil/water partition coefficient	:	Not available.
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods	:	The generation of waste should be avoided or 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
		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 Classification : Not regulated for transportation.

<u>'One</u>

## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016

Substances

Clean Air Act Section 602 Class II

Page 12 of 15 Print Date 02/27/2016

ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.
Section 15. Regulatory	' iı	nformation
U.S. Federal regulations	:	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(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) - Chemical risk rules: 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 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Titanium dioxide 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 - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I	:	Not listed

Not listed

:



## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 13 of 15 Print Date 02/27/2016

Substances:Not listedDEA List I Chemicals (Precursor:Not listedDEA List II Chemicals (Essential<br/>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	10 - 25	F

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Titanium dioxide	13463-67-7	10 - 25
requirements			
Supplier notification	Titanium dioxide	13463-67-7	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.

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

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## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 14 of 15 Print Date 02/27/2016

<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		
International lists	:	<ul> <li>Australia inventory (AICS): Not determined.</li> <li>Taiwan inventory (CSNN): Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: Not determined.</li> <li>Japan inventory: Not determined.</li> <li>China inventory (IECSC): Not determined.</li> <li>Korea inventory: Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): Not determined.</li> <li>Philippines inventory (PICCS): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

# Section 16. Other information

<u>History</u> Date of printing Date of issue/Date of revision	:	02/27/2016 02/26/2016
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations References	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations Not available.
		14/15

## PG 232378.01 PEARL GN PET AS

Version Number 1.0 Revision Date 02/26/2016 Page 15 of 15 Print Date 02/27/2016

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