MATERIAL SAFETY DATA SHEET BLUE 660U PEARL

Version Number 1.1 Revision Date 05/24/2007

Page 1 of 6 Print Date 11/28/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	BLUE 660U PEARL
Product code	CC10066799
Chemical Name	Mixture
CAS-No.	Mixture
Product Use	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	5 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion	Resin particles, like other inert materials, can be mechanically irritating.May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.

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MATERIAL SAFETY DATA SHEET **BLUE 660U PEARL**

Version Number 1.1 Revision Date 05/24/2007 Page 2 of 6 Print Date 11/28/2011

Inhalation	:	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	:	Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	:	Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
		5. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits		
		Not applicable
Upper explosion limit Lower explosion limit	:	Not applicable Not applicable
Autoignition temperature	:	Not applicable
	•	
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion		Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
Hazards	·	(NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL RELEASE MEASURES
Personal precautions	:	Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	:	Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	:	Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
		7. HANDLING AND STORAGE
Handling	:	Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

2/6

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MATERIAL SAFETY DATA SHEET **BLUE 660U PEARL**

Version Number 1.1 Revision Date 05/24/2007 Page 3 of 6 Print Date 11/28/2011

Image: Constraint of the constraint	8. E	XPOSURE	CONTROLS / PERSO	NAL PROTECTION				
Hand protection : Protective gloves Skin and body protection : Long sleeved clothing Additional Protective : Safety shoes Measures : Safety shoes General Hygiene : Handle in accordance with good industrial hygiene and safety practi Considerations : Wash hands before breaks and at the end of workday. Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Exposure limit(s) : Maximum Weighted Average ACGIF (TWA): : Total dust. OSHA Z 10 mg/m3 ime Weighted Average as Ti MX OE (TWA): : Total dust. OSHA Z 10 mg/m3 Short Term Exposure Limit as Ti MX OE (STEL): : Solid Evaporation rate : Not applicable PHYSICAL AND CHEMICAL PROPERTIES : Solid Evaporation rate : Not applicable Solid Evapour resure : Not applicable : Not applicable Appearance : pellets Specific Gravity : Not applicable Melting point/range : Not determined Vapour density : Not applicable	Respiratory protection	: N	lo personal respiratory pr	otective equipment nor	mally required.			
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Stability:Stable.Hazardous Polymerization:Will not occur.								
Hazardous Polymerization : Will not occur.		10. STABILITY AND REACTIVITY						
•	Stability : Stable.							
Conditions to avoid	Hazardous Polymerization : Will not occur.							
conditions to avoid . Reep away from oxidizing agents and open name. To avoid the ink	Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid thermal							

MATERIAL SAFETY DATA SHEET BLUE 660U PEARL

Version Number 1.1 Revision Date 05/24/2007 Page 4 of 6 Print Date 11/28/2011

Incompatible Materials:Incompatible with strong acids and oxidizing agents.Hazardous decomposition
products:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
(NOx), other hazardous materials, and smoke are all possible.

decomposition, do not overheat.

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.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

Γ	CAS-No.	Chemical Name	OSHA	IARC	NTP
	13463-67-7	Titanium dioxide	no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

Persistence and degradability	Not readily biodegradable.	
Environmental Toxicity	Chemicals are not readily available as they are bound within the polymer matrix.	
Bioaccumulation Potential	Chemicals are not readily available as they are bound within the polymer matrix.	
Additional advice	No data available	
	3. DISPOSAL CONSIDERATIONS	
Product	Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The	9

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MATERIAL SAFETY DATA SHEET **BLUE 660U PEARL**

ersion Number 1.1 evision Date 05/24/2007	Page 5 of 6 Print Date 11/28/2011
	generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
Contaminated packaging	: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardous	Substances (40 CFR 302)
Not applicable	
California Proposition 65	: Not applicable
SARA Title III Section 302 Ex	remely Hazardous Substance
Unless specific chemicals are i	entified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 To	ic Chemicals:
Unless specific chemicals are i	entified under this section, this product is Not Applicable under this regulation
Canadian Regulations:	

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MATERIAL SAFETY DATA SHEET BLUE 660U PEARL

Version Number 1.1 Revision Date 05/24/2007			Prir		ge 6 of 6 2 <i>8/2011</i>
National Pollutant Release In	nventory (NPRI)				
Chemical Name	• · · ·	CAS-No.	Weight %	NPRI ID#]
Phthalocyanine blue		147-14-8	1.00 - 5.00	71	
WHMIS Classification : WHMIS Ingredient Disclosu CAS-No. 147-14-8 DSL : National Inventories:	All components	s of this product are (DSL) or are exemp		Domestic	
Australia AICS :	Listed				
China IECS :	Listed				
Europe EINECS :	Listed				
Japan ENCS :	Not determined				
Korea KECI :	Listed				
Philippines PICCS :	Listed				
	16. OTHER IN	FORMATION			

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.