MATERIAL SAFETY DATA SHEET **AZUL MARINO PE (280C)**

Version Number 1.1 Revision Date 03/23/2014

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	AZUL MARINO PE (280C)
Product code	:	CC10142237
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Silica, amorphous	7631-86-9	1 - 5
Titanium dioxide	13463-67-7	1 - 5

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

: Inhalation, Ingestion, Skin contact		
: Resin particles, like other inert materials, can be mechanically irritating.		
: May be harmful if swallowed.		
: Resin particles, like other inert materials, are mechanically irritating to eyes.		
: Experience shows no unusual dermatitis hazard from routine handling.		
: Refer to Section 11 for Toxicological Information.		

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Medical Conditions : None known. Aggravated by Exposure:					
	4. FIRST AID MEASURES				
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 a 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. FIREFIGHTING MEASURES				
Flash point	: not applicable				
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. 				
	6. ACCIDENTAL 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.				
	7. HANDLING AND STORAGE				
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.				

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Storage

: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	: No personal i	respiratory protective equipment normally required.
Eye/Face Protection	: Safety glasse	s with side-shields
Hand protection	: Protective glo	oves
Skin and body protection	: Long sleeved	clothing
Additional Protective Measures	: Safety shoes	
General Hygiene Considerations		cordance with good industrial hygiene and safety sh hands before breaks and at the end of workday.
Engineering measures		areas with appropriate exhaust ventilation. Provide xhaust ventilation at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Silica, amorphous 6 mg/m3		Recommended exposure limit (REL):		NIOSH
	0.8 mg/m3	Time Weighted Average (TWA):		Z3
	10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Respirable dust.	MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour : solid: pellets: BLUE

Evapouration rate Specific Gravity Bulk density Not applicableNot determinedNot established

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Odour Melting point/range Boiling Point: Water solubility	very faintNot determinednot applicableinsoluble	Vapour pressure Vapour density pH	not applicablenot applicablenot applicable
	10. STABILITY AN	D REACTIVITY	
Stability	: The product is stab	ble if stored and handled as	s prescribed.
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from o decomposition, do	xidizing agents and open f not overheat.	lame. To avoid thermal
Incompatible Materials	: Incompatible with	strong acids and oxidizing	gagents.
Hazardous decomposition products		O2), carbon monoxide (CO rdous materials, and smoke	6

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
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.
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:

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.

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: 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.			
: no data available			
13. DISPOSAL CONSIDERATIONS			
: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. 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.			
: 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			
: Not regulated for transportation.			
: Refer to specific regulation.			
: Refer to specific regulation.			
15. REGULATORY INFORMATION			
: Classified as hazardous based on components.			
: All components of this product are listed on or exempt from the TSCA Inventory.			
s Substances (40 CFR 302)			
: Not applicable			

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SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Phthalocyanine blue	147-14-8	1.00 - 5.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
147-14-8
7631-86-9

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	: I	Listed
China IECS	: 1	Listed
Europe EINECS	: 1	Listed
Japan ENCS	: 1	Not determined
Korea KECI	: 1	Listed
Philippines PICCS	: 1	Listed

:

16. OTHER INFORMATION

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

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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.