MATERIAL SAFETY DATA SHEET

BLUE PEARL

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
:	BLUE PEARL
:	CC10061801
:	Mixture
:	Mixture
:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Calcium carbonate	1317-65-3	5 - 10
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	: Particulates, like other inert materials can be mechanically irritating. Excessive inhalation of product vapors, especially during heating or processing, may be irritating to respiratory system.
Ingestion	: May be harmful if swallowed.
Eyes	: Particulates, like other inert materials can be mechanically irritating.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.



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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 o 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition 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, foamnone. 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. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.
	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. Refer to Section 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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Handling		ake measures to prevent the b nly in areas with appropriate e		arge. Heat
Storage		eep containers dry and tightly nd contamination. Keep in a contamination.		absorption
8. F	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	o personal respiratory protect	ive equipment normally r	equired.
Eye/Face Protection	: S	afety glasses with side-shields		
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: Safety shoes.			
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety pra Wash hands before breaks and at the end of workday.			afety practic
Engineering measures	: Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.			
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
		PEL:	Respirable fraction.	OSHA Z
	S III g/III S			
Calcium carbonate	5 mg/m3 15 mg/m3	PEL:	Total dust.	
	<u>15 mg/m3</u> 10 mg/m3		Total dust.	OSHA Z ACGIH
Calcium carbonate	15 mg/m3	PEL: Time Weighted Average	Total dust. Total dust.	OSHA Z ACGIH
Calcium carbonate	15 mg/m3 10 mg/m3 15 mg/m3	PEL: Time Weighted Average (TWA):	Total dust.	OSHA Z ACGIH
Calcium carbonate	15 mg/m3 10 mg/m3 15 mg/m3	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust.	OSHA Z ACGIH
Calcium carbonate Titanium dioxide	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. DPERTIES ration rate : Not	OSHA Z ACGIH OSHA Z applicable
Calcium carbonate Titanium dioxide	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evaports E Bulk of the second se	Total dust. DPERTIES oration rate : Not ic Gravity: : Not lensity : Not	OSHA Z ACGIH OSHA Z applicable determined
Calcium carbonate Titanium dioxide Form Appearance Color Odor	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evaports E Bulk of faint Vapor	Total dust. DPERTIES ration rate : Not ïc Gravity: : Not lensity : Not pressure : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable
Calcium carbonate Titanium dioxide Form Appearance Color Odor Melting point/range	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not of	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evaports Specifi E Bulk of faint Vaport letermined Vaport	Total dust. DPERTIES ration rate : Not ic Gravity: : Not lensity : Not pressure : Not ir density : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable applicable
Calcium carbonate Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very : Not a : Not a	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evapor ts Specifi E Bulk of faint Vapor letermined Vapor applicable pH	Total dust. DPERTIES ration rate : Not ic Gravity: : Not lensity : Not pressure : Not ir density : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable
Calcium carbonate Titanium dioxide Form Appearance Color Odor Melting point/range	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not of	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evapor ts Specifi E Bulk of faint Vapor letermined Vapor applicable pH	Total dust. DPERTIES ration rate : Not ic Gravity: : Not lensity : Not pressure : Not ir density : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable applicable
Calcium carbonate Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not c : Not c : Insol	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evapor ts Specifi E Bulk of faint Vapor letermined Vapor applicable pH	Total dust. DPERTIES oration rate : Not Construction rate : Not In the structure : Not Constructure : Not Constructure : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable applicable
Calcium carbonate Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	15 mg/m3 10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not c : Not a : Insol 10. S	PEL: Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evapor ts Specifi E Bulk of faint Vapor letermined Vapor applicable pH uble	Total dust. DPERTIES oration rate : Not Construction rate : Not In the structure : Not Constructure : Not Constructure : Not	OSHA Z ACGIH OSHA Z applicable determined established applicable applicable



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Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Avoid contact with strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other. Prevent cross contamination of feedstocks.
Hazardous decomposition products	 Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

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
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

	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
	13. DISPOSAL CONSIDERATIONS
Product	: 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



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		applicable federal, state/provincial and local regulations.	
Contaminated packaging	:	Recycling is preferred when possible. The generator of waste materia has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.	
	14	4. 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 Hazardou	ıs Subs	stances (40 CFR 302)	
Not applicable			
California Proposition 65	n :	WARNING! This product contains a chemical known to the State of California to cause cancer.	
SARA Title III Section 302 E Not applicable	Extreme	ely Hazardous Substance	
SARA Title III Section 313 T	Toxic C	Chemicals:	
Not applicable Canadian Regulations:			
National Pollutant Rel	ease In	iventory (NPRI)	
Chemical Name		CAS-No. Weight % NPRI ID#	
Phthalocyanine blue		147-14-8 0.76 71	



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DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Not determined
China IECS	:	Not determined
Europe EINECS	:	Not determined
Japan ENCS	:	Not determined
Korea KECI	:	Not determined
Philippines PICCS	:	Not determined

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 information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.