PolyOne

MATERIAL SAFETY DATA SHEET OPALESCENT PE1

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1.	PROD	UCT AND COMPANY IDENTIFICATION	
POLYONE CORPORATI	ION		
33587 Walker Road, Avon Lake, OH 44012			
Telephone	:	1 (440) 930-1000 or 1 (866) POLYONE	
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).	
Product name	:	OPALESCENT PE1	
Product code	:	CC10143186	
Chemical Name	:	Mixture	
CAS-No.	:	Mixture	
Product Use	:	Industrial Applications	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Rutile (TiO2)	1317-80-2	1 - 5
Silica, amorphous	7631-86-9	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

: 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 Aggravated by Exposure:	: None known.
	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 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 respiratory protective equipment normally required.
Eye/Face Protection	:	Safety glasses with side-shields
Hand protection	:	Protective gloves
Skin and body protection	:	Long sleeved clothing
Additional Protective Measures	:	Safety shoes
General Hygiene Considerations	:	Handle in accordance with good industrial hygiene and safety practice. 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)

Components	Value	Exposure time	Exposure type	List:
Rutile (TiO2)	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average	Total dust.	OSHA Z1A
		(TWA):		
	10 mg/m3	Time Weighted Average	as Ti	MX OEL
		(TWA):		
	20 mg/m3	Short Term Exposure Limit	as Ti	MX OEL
		(STEL):		
Silica, amorphous	6 mg/m3	Recommended exposure		NIOSH
		limit (REL):		
	0.8 mg/m3	Time Weighted Average		Z3
		(TWA):		
	10 mg/m3	Time Weighted Average	Inhalable particulate.	MX OEL
		(TWA):		
	3 mg/m3	Time Weighted Average	Respirable dust.	MX OEL
		(TWA):		

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Colour : solid : pellets : GREEN 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	prescribed.
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from or decomposition, do	xidizing agents and open f not overheat.	lame. To avoid thermal
Incompatible Materials	: Incompatible with	strong acids and oxidizing	agents.
Hazardous decomposition products		O2), carbon monoxide (CC ordens to the constraint of the constrain	, i

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.	

Carcinogenicity

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
1317-80-2			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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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. Wh 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.	
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	: 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	: WARNING! This product contains a chemical known to the State California to cause cancer.	e 01
SARA Title III Section 302 Ex	remely Hazardous Substance	

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Unless specific chemicals are i	denti	ified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 To	xic C	Chemicals:
Unless specific chemicals are i	denti	ified under this section, this product is Not Applicable under this regulation
Canadian Regulations:		
National Pollutant Relea	ase Iı	nventory (NPRI)
not applicable		
WHMIS Classification	:	Not controlled.
DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Listed
Korea KECI	:	Listed
Philippines PICCS	:	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 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.