PolyOne

## MATERIAL SAFETY DATA SHEET **SPEC BLACK**

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	SPEC BLACK
Product code	:	CC10093643
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5
Mica	12001-26-2	5 - 10
Carbon black	1333-86-4	10 - 30

#### 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

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: 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 or 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	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	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
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.



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Storage

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: 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 require	d.
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 p Wash hands before breaks and at the end of workday.	oractice.
Engineering measures	: Heat only in areas with appropriate exhaust ventilation. Provid appropriate exhaust ventilation at machinery.	le

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
		(TWA):	black	
	3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
			black	
Mica	20 mppcf	PEL:	Total dust.	OSHA
	3 mg/m3	Time Weighted Average	Respirable fraction.	ACGIH
		(TWA):		
	3 mg/m3	Time Weighted Average		MX OEL
		(TWA):		
Titanium dioxide	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	20 mg/m3	Short Term Exposure Limit	as Ti	MX OEL
	_	(STEL):		

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odor Melting point/range Boiling Point:
- Solid
  Pellets
  BLACK
  Very faint
  Not determined
  Not applicable
- Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH
- Not applicable
  Not determined
  Not established
  Not applicable
  Not applicable
  Not applicable

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Water solubility : Insoluble		
	10. STABILITY AND REACTIVITY	
Stability	: Stable.	
Hazardous Polymerization	: Will not occur.	
Conditions to avoid	: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.	
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.	

#### **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.

<u>Toxicity Overview</u> 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.
12001-26-2	Mica	Systemic effects	Respiratory system.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.

LC50 / LD50

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

CAS-No.	Chemical Name	Route	Value	Species
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

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.

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

#### Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

	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 Contaminated packaging	<ul> <li>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.</li> <li>Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable 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</li> </ul>		
	and local regulations. 14. TRANSPORT INFORMATION		
	14. IRANSI OKT 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		

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US Regulations:					
OSHA Status	: Classified as	hazardous based or	n components.		
TSCA Status	: All compone Inventory.	All components of this product are listed on or exempt from the TSCA Inventory.			
US. EPA CERCLA Hazardous	Substances (40 CF	R 302)			
Not applicable					
California Proposition 65	: Not applicable	le			
SARA Title III Section 302 Ex	tremely Hazardous	Substance			
Unless specific chemicals are i			at is Not Applicabl	a under this regulat	
Unless specific chemicals are i	dentified under this	section, this produc	et is Not Applicabl	e under uns regulat	
SARA Title III Section 313 To	oxic Chemicals				
Unless specific chemicals are i	dentified under this	section, this produc	ct is Not Applicabl	e under this regulat	
Canadian Regulations:					
-					
National Pollutant Relea	ase Inventory (NPR		XXX • 1 · 0/		
Chemical Name Phthalocyanine blue		CAS-No. 147-14-8	Weight % 1.00 - 5.00	NPRI ID# 71	
Phthalocyanine green		1328-53-6	1.00 - 5.00	71	
	Dat				
WHMIS Classification	: D2A				
WHMIS Ingredient Dis	closure List				
CAS-No. 1333-86-4					
12001-26-2					
147-14-8					
1328-53-6					
DSL		ents of this product ist (DSL) or are exercised		n Domestic	

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National Inventories:

Australia AICS	: Not determined	
China IECS	: Listed	
Europe EINECS	: Listed	
Japan ENCS	: Not determined	
Korea KECI	: Listed	
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 used in combination with any other materials or in any process, unless specified in the text.