## MATERIAL SAFETY DATA SHEET **ROYAL BLUE MIDDLE**

Version Number 1.1 Revision Date 01/12/2007

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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	:	ROYAL BLUE MIDDLE
Product code	:	CC10095445
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	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

Routes of Exposure:	: 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</li> </ul>
Skin	<ul><li>resin particles, fixe other metrimations, are meenaneanly inflating to eyes.</li><li>Experience shows no unusual dermatitis hazard from routine handling.</li></ul>
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.

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	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 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	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne</li> </ul>		
Unusual Fire/Explosion Hazards	<ul> <li>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 3 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		

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8. F	XPOSURE	CONTROLS / PERSONAL	PROTECTION			
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally	required.		
Eye/Face Protection	: S	: Safety glasses with side-shields.				
Hand protection	: P	: Protective gloves.				
Skin and body protection	: Long sleeved clothing.					
Additional Protective Measures	: S	afety shoes.				
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and a		afety practice		
Engineering measures		leat only in areas with appropri ppropriate exhaust ventilation a		Provide		
Exposure limit(s)						
Components	Value	Exposure time	Exposure type	List:		
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	1 71	ACGIH		
	15 mg/m3	PEL:	Total dust.	OSHA Z1		
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL		
	9. PHYSIC	CAL AND CHEMICAL PRO	PERTIES			
	: Solic	1 Evapor	ration rate : Not	applicable		
Form	: Pelle			determined		
				established		
Appearance	: BLU	2 2 2 4 1 4	NT .	applicable		
Appearance Color Odor	: Very	v faint Vapor				
Appearance Color Odor Melting point/range	: Very : Not o	r faint Vapor determined Vapou	r density : Not	applicable		
Appearance Color Odor Melting point/range Boiling Point:	: Very : Not of : Not a	r faintVapordeterminedVapouapplicablepH	r density : Not	applicable applicable		
Appearance Color Odor Melting point/range Boiling Point:	: Very : Not o	r faintVapordeterminedVapouapplicablepH	r density : Not	applicable		
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Very : Not o : Not a : Insol	r faintVapordeterminedVapouapplicablepH	r density : Not : Not	applicable		
Appearance Color Odor Melting point/range Boiling Point:	: Very : Not a : Not a : Insol <b>10. S</b>	r faint Vapor determined Vapou applicable pH luble	r density : Not : Not	applicable		
Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Very : Not a : Not a : Insol <b>10. S</b> : S	r faint Vapor determined Vapou applicable pH luble	r density : Not : Not	applicable		

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Incompatible Material	ls : Incompatible	with strong acids and o	oxidizing agents.	
Hazardous decomposi products		de (CO2), carbon mono hazardous materials, an		
	11. TOXICOLOG	GICAL INFORMATIC	DN	
	been evaluated as a whole for ividual components which co		re effects listed are	e based on exi
<u>Toxicity Overview</u> This product contains	the following components w	which in their pure form	have the following	g characteristic
CAS-No.	Chemical Name	Effect	Target	Organ
13463-67-7	Titanium dioxide	Systemic effects	Respiratory syste	
CAS-No. 13463-67-7	Chemical Name Titanium dioxide	OSHA no	IARC 2B	NTP no
2A - The component i 2B - The component i	carcinogenic to humans. Is probably carcinogenic to h Is possibly carcinogenic to hu			
NTP Carcinogen Clas 1 - The component is	known to be a human carcine	ogen.		
1 - The component is	known to be a human carcing reasonably anticipated to be	a human carcinogen.		
1 - The component is	known to be a human carcing reasonably anticipated to be		[	
1 - The component is	known to be a human carcine reasonably anticipated to be <b>12. ECOLOGIC</b>	a human carcinogen.	1	
<ol> <li>The component is</li> <li>The component is</li> </ol>	known to be a human carcing reasonably anticipated to be <b>12. ECOLOGIO</b> dability : Not readily b	a human carcinogen. CAL INFORMATION iodegradable. e not readily available a		vithin the
<ol> <li>The component is</li> <li>The component is</li> </ol> Persistence and degrae	known to be a human carcine reasonably anticipated to be <b>12. ECOLOGIO</b> dability : Not readily b ity : Chemicals are polymer matr	a human carcinogen. <u>CAL INFORMATION</u> iodegradable. e not readily available a rix. e not readily available a	is they are bound w	
<ol> <li>The component is</li> <li>The component is</li> <li>Persistence and degrad</li> <li>Environmental Toxici</li> </ol>	known to be a human carcine reasonably anticipated to be <b>12. ECOLOGIO</b> dability : Not readily b ity : Chemicals are polymer matre ential : Chemicals are	a human carcinogen. CAL INFORMATION iodegradable. e not readily available a rix. e not readily available a rix.	is they are bound w	
<ol> <li>The component is</li> <li>The component is</li> <li>Persistence and degrad</li> <li>Environmental Toxici</li> <li>Bioaccumulation Pote</li> </ol>	known to be a human carcine reasonably anticipated to be <b>12. ECOLOGIO</b> dability : Not readily b ity : Chemicals are polymer matr ential : Chemicals are polymer matr : No data avail	a human carcinogen. CAL INFORMATION iodegradable. e not readily available a rix. e not readily available a rix.	is they are bound w	

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		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.
	1	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	5. 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	s Sub	stances (40 CFR 302)
Not applicable		
California Proposition 65	:	Not applicable
SARA Title III Section 302 E	xtrem	ely Hazardous Substance
Unless specific chemicals are	identi	fied under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 T	oxic C	Chemicals:
Unless specific chemicals are	identi	fied under this section, this product is Not Applicable under this regulation
Canadian Regulations:		
National Pollutant Rele	ease Ii	nventory (NPRI)
Chemical Name		CAS-No. Weight % NPRI ID#

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Aluminum oxide			1344-28-1	0.10 - 1.00	13
WHMIS Classification	:	Not controlled.			
DSL	:		s of this product a (DSL) or are exe	re on the Canadian mpt.	Domestic
lational Inventories:					
Australia AICS	:	Listed			
China IECS	:	Listed			
Europe EINECS	:	Listed			
Japan ENCS	:	Listed			
Korea KECI	:	Listed			
Philippines PICCS	:	Listed			
		16. OTHER IN	NFORMATION		

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.