MATERIAL SAFETY DATA SHEET

Royal Purple 273c

Version Number 1.0 Revision Date 04/05/2007 Page 1 of 6 Print Date 11/27/2011

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 Purple 273c
Product code	CC10098875
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	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

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion	Resin particles, like other inert materials, can be mechanically irritating.May be harmful if swallowed.
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.



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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 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. FIRE-FIGHTING MEASURES
Flash point	:	Not applicable
Flammable Limits		
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Autoignition temperature	:	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foamnone.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL 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 13 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. H	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	lo personal respiratory protecti	ve equipment normally	required.
Eye/Face Protection	: S	afety glasses with side-shields		
Hand protection	: P	Protective gloves		
Skin and body protection	: L	long sleeved clothing		
Additional Protective Measures	: S	afety shoes		
General Hygiene Considerations		Handle in accordance with good Vash hands before breaks and a		afety practice
Engineering measures		Heat 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):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL
	9 PHVSI	CAL AND CHEMICAL PRO	PFRTIFS	
	<i>.</i>	CAL AND CHEMICAL I KO		
Form	: Solic	1		applicable
	: pelle		2	determined
Appearance	: PUR	CPLE Bulk d	5	established
Appearance Color	X 7	C ' / T	r pressure : Not	applicable applicable
Appearance Color Odour	•	faint Vapou		
Appearance Color Odour Melting point/range	: Not	determined Vapou	r density : Not	
Appearance Color Odour	: Not	determined Vapou applicable pH	r density : Not	applicable
Appearance Color Odour Melting point/range Boiling Point:	: Not : Not : Insol	determined Vapou applicable pH	r density : Not : Not	
Appearance Color Odour Melting point/range Boiling Point:	: Not : Not : Insol	determined Vapou applicable pH luble	r density : Not : Not	
Appearance Color Odour Melting point/range Boiling Point: Water solubility	: Not : : Not : : Insol 10. § : S	determined Vapou applicable pH luble	r density : Not : Not	

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Version Number 1.0 Page 4 of 6 Revision Date 04/05/2007 Print Date 11/27/2011 **Incompatible Materials** : Incompatible with strong acids and oxidizing agents. Hazardous decomposition Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen : products (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. Toxicity Overview 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. 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 2B no 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. : 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 material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations. Lt. TRANSPORT INFORMATION U.S. DOT Classification : Not regulated for transportation. ICAO/IATA (air) : Refer to specific regulation. IMO / IMDG (maritime) : Refer to specific regulation. IMO / IMDG (maritime) : Refer to specific regulation. IMO / IMDG (maritime) : Refer to specific regulation. IS. DSTREGULATORY 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 : Not applicable 65 SARA Title III Section 302 Extremely Hazardous Substance Unless specific chemicals are identified under this section, this product is Not Applicable under this regula SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this section, this product is Not Applicable under this regula Canadian Regulations:	/ersion Number 1.0 Revision Date 04/05/2007		Page 5 of 6 Print Date 11/27/2011
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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.