MATERIAL SAFETY DATA SHEET UV MAKRO GREEN 14

Version Number 1.1 Revision Date 10/20/2006

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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	:	UV MAKRO GREEN 14
Product code	:	CC10061800
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

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
Elemental J. J. Status		
Flammable Limits		Not applicable
Upper explosion limit Lower explosion limit	:	Not applicable 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. E	EXPOSURE	CONTROLS / PERSONAL	PROTECTION			
Respiratory protection	: N	lo personal respiratory protecti	ive equipment normally r	required.		
Eye/Face Protection	: S	: Safety glasses with side-shields.				
Hand protection	: P	: Protective gloves.				
Skin and body protection	: L	ong 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 appropr ppropriate exhaust ventilation		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. PHYSIC	CAL AND CHEMICAL PRO	DPERTIES			
				applicable		
Form	· Solid	I Evano	ration rate · Not	applicable		
Form	: Solic · Pelle					
Appearance	: Pelle	ets Specif	ïc Gravity: : Not	determined		
		ets Specif EEN Bulk d	ic Gravity: : Not lensity : Not	determined established		
Appearance Color	: Pelle : GRE : Very	ets Specif EEN Bulk d faint Vapor	ic Gravity: : Not lensity : Not pressure : Not	determined		
Appearance Color Odor Melting point/range Boiling Point:	: Pelle : GRE : Very : Not of : Not of	ets Specif EN Bulk d r faint Vapor determined Vapou applicable pH	ïc Gravity:: Notlensity: Notpressure: Notur density: Not	determined established applicable		
Appearance Color Odor Melting point/range	: Pelle : GRE : Very : Not o	ets Specif EN Bulk d r faint Vapor determined Vapou applicable pH	ïc Gravity:: Notlensity: Notpressure: Notur density: Not	determined established applicable applicable		
Appearance Color Odor Melting point/range Boiling Point:	: Pelle : GRE : Very : Not : Not : Insol	ets Specif EN Bulk d r faint Vapor determined Vapou applicable pH	ic Gravity: : Not lensity : Not pressure : Not ur density : Not : Not	determined established applicable applicable		
Appearance Color Odor Melting point/range Boiling Point:	: Pelle : GRE : Very : Not e : Not : : Insol	ets Specif EN Bulk d faint Vapor determined Vapou applicable pH luble	ic Gravity: : Not lensity : Not pressure : Not ur density : Not : Not	determined established applicable applicable		
Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Pelle : GRE : Very : Not (: Not : : Insol 10. \$: S	ets Specif EN Bulk d faint Vapor determined Vapou applicable pH luble	ic Gravity: : Not lensity : Not pressure : Not ur density : Not : Not	determined established applicable applicable		

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Incompatible Materials	: Incom	patible with	strong acids and o	xidizing agents.	
Hazardous decompositi products			O2), carbon monor dous materials, and		
	11. TOXIC	OLOGICA	L INFORMATIO	N	
This mixture has not be health data for the indiv				re effects listed a	re based on existing
<u>Toxicity Overview</u> This product contains th	ne following compo	nents which	in their pure form	have the followin	g characteristics:
CAS-No.	Chemical Na		Effect	Target	Organ
13463-67-7	Titanium dioxide	S	ystemic effects	Respiratory sys	
Carcinogenicity This product contains th data:					
CAS-No. 13463-67-7	Chemical N Titanium dioxide	vame	OSHA no	IARC 2B	NTP no
 The component is ca 2A - The component is 2B - The component is NTP Carcinogen Classi The component is kn The component is re 	probably carcinoge possibly carcinoger fications: nown to be a human	nic to human ic to humans carcinogen.	5.		
	12. ECO	LOGICAL	INFORMATION		
Persistence and degrada	ıbility : Not re	adily biodeg	radable.		
Environmental Toxicity		icals are not a	readily available a	s they are bound	within the
Bioaccumulation Poten		icals are not a	readily available a	s they are bound	within the
Additional advice	: No da	ta available			
	13. DISF	OSAL CON	SIDERATIONS		
Product	possit genera	ble recycling ator of waste	lastic plastics the plastic plastic plastic preferred to disp material has the resportation and disp	oosal or incineraties sponsibility for p	on. The roper waste

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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	. 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	Sub	stances (40 CFR 302)
Not applicable		
California Proposition 65	:	Not applicable
SARA Title III Section 302 Ex	trem	ely Hazardous Substance
Unless specific chemicals are i	denti	fied under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 To	xic C	Themicals:
Unless specific chemicals are i	denti	fied under this section, this product is Not Applicable under this regulation
Canadian Regulations:		
National Pollutant Relea	ase Ir	iventory (NPRI)
Chemical Name		CAS-No. Weight % NPRI ID#

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Phthalocyanine green			1328-53-6	0.10 - 1.00	71
WHMIS Classification	:	Not controlled.			
DSL	:		ts of this product a t (DSL) or are exe	are on the Canadiar	n Domestic
Jational Inventories:					
Australia AICS	:	Listed			
China IECS	:	Listed			
Europe EINECS	:	Listed			
Japan ENCS	:	Listed			
Korea KECI	:	Listed			
Philippines PICCS	:	Listed			
		16 OTHER	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.