MATERIAL SAFETY DATA SHEET QUAD GREEN HIPS #4

Version Number 1.0 Revision Date 04/10/2007

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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	:	QUAD GREEN HIPS #4
Product code	:	CC10098414
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	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, Foam.
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	EXPOSURE	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	rotective gloves						
Skin and body protection	: Long sleeved clothing							
Additional Protective Measures	: S	afety shoes						
General Hygiene Considerations		Iandle 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				
	0 PHVSI	CAL AND CHEMICAL PRO	PERTIES					
	<i>9.1115</i>	CAL AND CHEMICAL I KO						
Form	: Solic			applicable				
Appearance	: pelle			determined				
Color	: GRE		•	established applicable				
Odour		1	1	applicable				
Odour Melting point/range		applicable pH		applicable				
Melting point/range				TT				
	: Insol	luble						
Melting point/range Boiling Point:	: Insol	luble STABILITY AND REACTIV	/ITY					
Melting point/range Boiling Point:	: Insol 10. S		/ITY					
Melting point/range Boiling Point: Water solubility	: Insol 10. S : S	STABILITY AND REACTIV	/ITY					

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Incompatible Materi	als :	Incompatible	with strong acids and	oxidizing agents.	
Hazardous decompo products	sition :		de (CO2), carbon mon hazardous materials, a		
	11.	TOXICOLOG	ICAL INFORMATI	ON	
This mixture has not health data for the in			health effects. Exposomprise the mixture.	sure effects listed an	re based on ex
Toxicity Overview This product contain	ns the following	g components w	hich in their pure forn	n have the followin	g characteristi
CAS-No.		nical Name	Effect	Target	Organ
13463-67-7	Titanium o	lioxide	Systemic effects	Respiratory sys	tem.
13463-67-7 IARC Carcinogen C	Titanium o	lioxide	no	2B	no
data: CAS-No. 13463-67-7		emical Name lioxide	OSHA no	IARC 2B	NTP no
2A - The component2B - The componentNTP Carcinogen Cla1 - The component i2 - The component i	t is possibly car assifications: s known to be	rcinogenic to hu a human carcino	mans. ogen.		
· · · I · · ·		1	8		
	1	2. ECOLOGIC	CAL INFORMATIO	N	
Persistence and degr		2. ECOLOGIO Not readily bi	CAL INFORMATIO	N	
Persistence and degr Environmental Toxi	adability :	Not readily bi	odegradable. e not readily available		within the
-	radability : city :	Not readily bi Chemicals are polymer matr	odegradable. e not readily available ix. e not readily available	as they are bound	
Environmental Toxi	radability : city :	Not readily bi Chemicals are polymer matr Chemicals are	odegradable. e not readily available ix. e not readily available ix.	as they are bound	
Environmental Toxi Bioaccumulation Po	radability : city : tential : :	Not readily bi Chemicals are polymer matr Chemicals are polymer matr No data availa	odegradable. e not readily available ix. e not readily available ix.	as they are bound was they are bound was 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	is Sub	stances (40 CFR 302)
Not applicable		
California Propositior 65	ı :	Not applicable
SARA Title III Section 302 E	Extrem	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	Coxic C	Chemicals:
Unless specific chemicals are	identi	fied under this section, this product is Not Applicable under this regulation
Canadian Regulations:		
National Pollutant Rel	ease Ir	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	n:	D2A			
WHMIS Ingredient Di	sclosu	ire List			
CAS-No. 128-80-3					
DSL	:		nts of this product st (DSL) or are ex	are on the Canadian empt.	n Domestic
Vational Inventories:					
Australia AICS	:	Listed			
China IECS	:	Listed			
Europe EINECS	:	Listed			
Japan ENCS	:	Listed			
Korea KECI	:	Listed			
Philippines PICCS	:	Listed			
		16. OTHER	INFORMATION	J	

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.