MATERIAL SAFETY DATA SHEET

GRAY #16

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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 :	GRAY #16
Product code :	CC10061610
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Silica, amorphous	7631-86-9	1 - 5
Titanium dioxide	13463-67-7	30 - 60

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	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. 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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	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 o 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 Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. ACCIDENTAL RELEASE MEASURES
	0. 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.
Storage	: Keep containers dry and tightly closed to avoid moisture absorption



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appropriate exhaust ventilation at machinery. Exposure limit(s) Components Value Exposure time Exposure type List: Silica, amorphous 20 mppcf PEL: Total dust. OSHA 20 mppcf PEL: Total dust. Z3 10 mg/m3 Time Weighted Average ACGIH Titanium dioxide 10 mg/m3 Time Weighted Average ACGIH (TWA): ACGIH 1 5 mg/m3 PEL: Total dust. OSHA ZI OPHYSICAL AND CHEMICAL PROPERTIES Form : Solid Evaporation rate : Not applicable Appearance : Pellets Specific Gravity: : Not determined Color : GREY Bulk density : Not established Odor : Very faint Vapour density : Not applicable Boiling Point: : Not applicable pH : Not applicable Boiling Point: : Not applicable pH : Not applicable Water solubili	8. E	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Hand protection : Protective gloves. Skin and body protection : Long sleeved clothing. Additional Protective : Safety shoes. Measures : Safety shoes. General Hygiene : Handle in accordance with good industrial hygiene and safety practice. Considerations : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Exposure limit(s) : Total dust. OSHA Silica, amorphous 20 mppef PEL: Total dust. Z3 10 mg/m3 Time Weighted Average ACGIH (TWA): COGHA OSHA ZI PHYSICAL AND CHEMICAL PROPERTIES Form : Solid Evaporation rate : Not applicable Appearance : Pellets Specific Gravity: : Not determined Odor : GREY Bulk density : Not applicable Appearance : Pellets Specific Gravity: : Not applicable <	Respiratory protection	: N	o personal respiratory protect	ive equipment normally	required.
Skin and body protection : Long sleeved clothing. Additional Protective : Safety shoes. Measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Exposure limit(s) : Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery. Exposure limit(s) : Total dust. OSHA <u>20 mppcf PEL:</u> Total dust. OSHA 20 mppcf PEL: Total dust. OSHA 10 mg/m3 Time Weighted Average ACGIH (TWA): Itanium dioxide OSHA ZI Persum : Solid Evaporation rate : Not applicable Appearance : Pellets Specific Gravity: : Not applicable Appearance : Pellets Specific Gravity: : Not applicable Melting point/range : Not determined Vapour density : Not applicable Melting point/range : Not determined Vapour density : Not applicable Bioling Point: : Not applicable PH : Not applic	Eye/Face Protection	: S	afety glasses with side-shields		
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Water solubility : Insoluble Insoluble IO. STABILITY AND REACTIVITY Stability : Stable. Hazardous Polymerization : Will not occur.			1		
10. STABILITY AND REACTIVITY Stability : Stable. Hazardous Polymerization : Will not occur.				. 1101	applicable
Stability:Stable.Hazardous Polymerization:Will not occur.	water solubility	. 111501	uoic		
Hazardous Polymerization : Will not occur.		10. S	STABILITY AND REACTIV	VITY	
	Stability	: S	table.		
Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid thermal			Vill not occur.		
		a : v			



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Version Number 1.0 Page 4 of 6 Revision Date 11/19/2004 Print Date 11/16/2011 decomposition, do not overheat. **Incompatible Materials** : Incompatible with strong acids and oxidizing agents. Hazardous decomposition : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. products **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 7631-86-9 Silica, amorphous Irritant Eyes, Respiratory system. 13463-67-7 Titanium dioxide Systemic effects Respiratory system. **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 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.

14. TRANSPORT INFORMATION

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA (air)	:	Refer to specific regulation.

PolyOne.

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IMO / IMDG (maritime)	:				
	1:	5. REGULATORY IN	FORMATION		
US Regulations:					
OSHA Status	:	Classified as hazardo	ous based on com	ponents.	
TSCA Status	:	All components of the Inventory.	his product are lis	ted on or exemj	pt from the TSCA
US. EPA CERCLA Hazardo	ous Sub	ostances (40 CFR 302)			
Not applicable					
California Propositio 65	on :	This product does no	ot contain a substa	nce listed by C	alifornia Prop 65
SARA Title III Section 302 Not applicable	Extrem	nely Hazardous Substan	nce		
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations:	Toxic (Chemicals:	nce		
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations: 	Toxic (Chemicals:		Weight %	NPRI ID#
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations:	Toxic (Chemicals:	nce CAS-No. 1328-53-6	Weight % 0.19	NPRI ID# 71
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations: National Pollutant Re Chemical Name	Toxic (Chemicals: nventory (NPRI)	CAS-No. 1328-53-6 his product are or	0.19	71
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations: National Pollutant Re Chemical Name Phthalocyanine green WHMIS Classification DSL	Toxic (Chemicals: nventory (NPRI) Not controlled. All components of t	CAS-No. 1328-53-6 his product are or	0.19	71
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Not applicable SARA Title III Section 313 Not applicable Canadian Regulations: <u>National Pollutant Re</u> <u>Chemical Name</u> Phthalocyanine green WHMIS Classification DSL National Inventories:	Toxic (elease I	Chemicals: nventory (NPRI) Not controlled. All components of t Substances List (DS	CAS-No. 1328-53-6 his product are or	0.19	71
Not applicable SARA Title III Section 313 Not applicable Canadian Regulations: National Pollutant Re Chemical Name Phthalocyanine green WHMIS Classification DSL National Inventories: Australia AICS	Toxic (elease I	Chemicals: nventory (NPRI) Not controlled. All components of t Substances List (DS Listed	CAS-No. 1328-53-6 his product are or	0.19	71

POLYONE CORPORATION



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Korea KECI : Listed

Philippines PICCS :

16. OTHER INFORMATION

Listed

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 when used in combination with any other materials and/or in any particular process or processing conditions.