MATERIAL SAFETY DATA SHEET

## **GREY 423C**

Version Number 1.0 Revision Date 08/25/2004 Page 1 of 6 Print Date 11/15/2011

### 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	:	GREY 423C
Product code	:	CC10057915
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	1 - 5
Calcium carbonate	1317-65-3	10 - 30
Titanium dioxide	13463-67-7	60 - 100

### 3. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions.

### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation Ingestion Eyes Skin	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Particulates, like other inert materials can be mechanically irritating.</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.



MATERIAL SAFETY DATA SHEET **GREY 423C** 

Version Number 1.0 Revision Date 08/25/2004 Page 2 of 6 Print Date 11/15/2011

	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 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 sower explosion limit Autoignition temperature Suitable extinguishing media	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> </ul>			
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. 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			



## MATERIAL SAFETY DATA SHEET **GREY 423C**

Version Number 1.0 Revision Date 08/25/2004

\_

Page 3 of 6 Print Date 11/15/2011

8. EX	POS	UF	RE CONTROLS / PERSONAL PROTECTION
Respiratory protection		:	No personal respiratory protective equipment normally required. If dusty conditions occur wear appropriate respiratory protection.
Eye/Face Protection		:	Safety glasses with side-shields.
Hand protection		:	Protective gloves. Refer to equipment supplier to ensure protection.
Skin and body protection		:	Long sleeved clothing.
Additional Protective Measures		:	Safety shoes.
General Hygiene Considerations		:	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.

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	ng/m3 PEL: Respirable		OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
		(TWA):	black	
	3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
			black	
Titanium dioxide	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor Melting point/range Boiling Point: Water solubility Solid
powder, granular
GREY
Very faint
Not determined
Not applicable
Insoluble

Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH Not applicable
Not applicable
Not determined
Not applicable
Not applicable
Not applicable
Not applicable

### **10. STABILITY AND REACTIVITY**

Stability

: Stable.



## MATERIAL SAFETY DATA SHEET **GREY 423C**

Version Number 1.0 Page 4 of 6 Revision Date 08/25/2004 Print Date 11/15/2011 Hazardous Polymerization : Will not occur. Conditions to avoid : To avoid thermal decomposition, do not overheat. Keep away from oxidizing agents and open flame. Incompatible with strong acids and oxidizing agents. **Incompatible Materials** : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen Hazardous decomposition : 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
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
1333-86-4	Carbon black	Oral LD50	>15,400 mg/kg	rat
		Dermal LD50	> 3 gm/kg	rabbit

#### Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

12. ECOLOGICAL INFORMATION				
Persistence and degradability	:	Not readily biodegradable.		
Environmental Toxicity		Chemicals are not readily available as they are bound within the polymer matrix.		



MATERIAL SAFETY DATA SHEET **GREY 423C** 

Version Number 1.0 Revision Date 08/25/2004 Page 5 of 6 Print Date 11/15/2011

Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.		
Additional advice : No data available			
	13. DISPOSAL CONSIDERATIONS		
Product	: Where possible recycling is preferred to disposal or incineration. T 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 mater 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.		
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 TSC Inventory.		
US. EPA CERCLA Hazardous	Substances (40 CFR 302)		
Not applicable			
California Proposition 65	: WARNING! This product contains a chemical known to the State of California to cause cancer.		
SARA Title III Section 302 Ex	tremely Hazardous Substance		
Not applicable			
	tremely Hazardous Substance		

		I	<u>OlyO</u> 1	<u>ne</u> .	
POLYONE CORPORATION			-		
MATERIAL SAFETY DATA SHEET					
GREY 423C					
Version Number 1.0 Revision Date 08/25/2004			Print	Pag /Date 11	ge 6 of 6
			1 1111		10/2011
SARA Title III Section 313 Toxic Chemicals	:				
Chemical Name		CAS-No.	Weight %	)	
ZINC COMPOUNDS		68187-51-9	3.30		
Canadian Regulations:					
National Pollutant Release Inventory					_
Phthalocyanine blue	14	47-14-8	0.13	70	
	ponents of this p ces List (DSL) or		e Canadian D	omestic	
National Inventories:					
Australia AICS : Listed					
China IECS : Listed					
Europe EINECS : Listed					
Japan ENCS : Not dete	ermined				
Korea KECI : Listed					
Philippines PICCS : Listed					
16. OT	HER INFORM	ATION			

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.