

MATERIAL SAFETY DATA SHEET

#### **SLATE GREEN**

Version Number 1.0 Revision Date 08/21/2003

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	SLATE GREEN
Product code	:	CC10041537
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	0.1 - 1
Molybdate orange (Lead chromate pigment)	12656-85-8	0.1 - 1
Lead chromate	7758-97-6	1 - 5
Titanium dioxide	13463-67-7	5 - 10
Calcium carbonate	1317-65-3	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

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
Skin	: Experience shows no unusual dermatitis hazard from routine handling.



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Medical Conditions Aggravated by Exposure:	: None known.
	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 seel 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	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>Carbon dioxide blanket, water spray, dry powder, foam.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>None</li> </ul>
	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 12 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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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 and contamination. Keep in a dry, cool place.
8. EXPOSU	RE CONTROLS / PERSONAL PROTECTION
Respiratory protection :	No personal respiratory protective equipment normally required.
Eye/Face Protection :	Safety glasses with side-shields.
Hand protection :	Protective gloves.
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.
Exposure limit(s)	



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Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black	ACGIH
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon black	OSHA Z1
Lead chromate	1 mg/m3	PEL:	as Cr	OSHA Z1
Lead chromate	0.05 mg/m3	Time Weighted Average (TWA):	Dust. as Pb	OSHA
	0.03 mg/m3	OSHA Action level:	Dust. as Pb	OSHA
	0.012 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
Molybdate orange (Lead chromate pigment)	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	OSHA
Molybdate orange (Lead chromate pigment)	0.01 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
Molybdate orange (Lead chromate pigment)	0.05 mg/m3	Time Weighted Average (TWA):	as Pb	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
Titanium dioxide		(		

Appearance Color Odor Melting point/range Boiling Point: Water solubility Pellets
GREEN
Very faint
Not determined
Not applicable
Insoluble

# Evaporation rate:NotSpecific Gravity:NotBulk density:NotVapor pressure:NotVapor density:NotpH:Not

Not applicable.
Not determined
Not established
Not applicable
Not applicable
Not applicable
Not applicable

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

Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.



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Hazardous decomposition products

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (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.
12656-85-8	Molybdate orange (Lead chromate pigment)	Irritant	Eyes, Skin.
		Systemic effects	central nervous system, reproductive system.
7758-97-6	Lead chromate	Systemic effects	central nervous system, reproductive system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, 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
7758-97-6	Lead chromate	Oral LD50	> 12 gm/kg	mouse

Carcinogenicity:

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	no	2B	no
12656-85-8	Molybdate orange (Lead chromate pigment)	no	no	1
7758-97-6	Lead chromate	no	no	1

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.



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#### 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). 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.

#### Additional Health Hazard Information:

Molybdate orange (Lead chromate pigment) 12656-85-8 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

#### Additional Health Hazard Information:

Lead chromate 7758-97-6 Systemic effects include neurotoxic, teratogenic, fetotoxic and reproductive with abdominal pain, anemia, pallor, decreased hand grip strength with characteristic "wrist drop".

: Not readily biodegradable.
: Chemicals are not readily available as they are bound within the matrix of the polymer.
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: No data available.
13. DISPOSAL CONSIDERATIONS
: Like most thermoplastics 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.
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14. TRANSPORT INFORMATION
: Refer to specific regulation.



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ICAO/IATA	: Refer to specific regu	lation.		
IMO / IMDG	: Refer to specific regu	lation.		
	15. REGULATORY IN	FORMATION		
US Regulations:				
OSHA Status	: Classified as hazardo	us based on compo	onents.	
TSCA Status	CA Status : All components of this product are listed on or exempt from the TSCA Inventory.			
US. EPA CERCLA Hazardous Su	ubstances (40 CFR 302)			
Not applicable				
California Proposition 65	: WARNING! This pr California to cause ca chemical known to th other reproductive ha	ncer., WARNING e State of Californ	! This produ	ct contains a
SARA Title III Section 302 Extre	emely Hazardous Substan	ce		
Not applicable				
SARA Title III Section 313 Toxic	c Chemicals:			
Chemical Name		CAS-No.	Weight	0%
CHROMIUM VI COMP	OUNDSLEAD	7758-97-6	2.09	/0
COMPOUNDS, INORGA			,	
COMPOUNDS				
CHROMIUM VI COMPO		12656-85-8	0.33	
COMPOUNDS, INORGA		12030 03 0	0.000	
COMPOUNDS		12030 03 0		
00111 001125		12030 03 0		
		12030 03 0		
Canadian Regulations:				
Canadian Regulations:	ANICLEAD			
Canadian Regulations: National Pollutant Release	ANICLEAD			NPRI ID#
Canadian Regulations: National Pollutant Release Chemical Name	ANICLEAD	CAS-No.	Weight %	NPRI ID# 245
Canadian Regulations: National Pollutant Release Chemical Name Lead chromate	ANICLEAD	CAS-No. 7758-97-6	Weight % 2.09	245
Canadian Regulations: National Pollutant Release Chemical Name	ANICLEAD	CAS-No.	Weight %	



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WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
7758-97-6	
12656-85-8	

DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS	: Listed.
China IECS	: Listed.
Europe EINECS	: Not determined.
Japan ENCS	: Not determined.
Korea KECI	: Not determined.
Philippines PICCS	: Not determined.

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#### **16. OTHER INFORMATION**

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.