

## MATERIAL SAFETY DATA SHEET

# GREEN

Version Number 1.1 Revision Date 04/12/2002 Page 1 of 6 Print Date 11/4/2011

## 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	:	GREEN
Product code	:	CC10013900
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
Zinc stearate	557-05-1	1 - 5
Titanium dioxide	13463-67-7	10 - 30

## **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole. 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 3 and 11 for special precautions.

## POTENTIAL HEALTH EFFECTS

Routes of Exposure::Inhalation, Skin contact, Ingestion			
Acute exposure			
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.		
Ingestion	: May be harmful if swallowed.		
Eyes	: No known effects.		
Skin	: Experience shows no unusual dermatitis hazard from routine handling.		
Chronic exposure	: Refer to Section 11 for Toxicological Information.		



# MATERIAL SAFETY DATA SHEET

# GREEN

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. Seek medical attention after significant exposure.
Ingestion	: Do not induce vomiting without medical advice. Seek medical attention if necessary.
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If ey 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	: Greater than 200 Deg F
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures	<ul> <li>Not applicable.</li> <li>Not applicable.</li> <li>Not applicable.</li> <li>Carbon dioxide blanket, 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> </ul>
Unusual Fire/Explosion Hazards	: None
	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 no be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binde universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Heat only in areas with appropriate exhaust ventilation.

# MATERIAL SAFETY DATA SHEET



# GREEN

			Print I	Page 3 Date 11/4/2
Storage		eep containers dry and tightly ad contamination. Store in a c		e absorption
8. I	EXPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: U	nder normal handling condition	ons a respirator is not req	uired.
Eye/Face Protection	: Sa	afety glasses with side-shields	5.	
Hand protection	: P1	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: Sa	afety shoes.		
General Hygiene Considerations		andle in accordance with good ash hands before breaks and		afety practice
Engineering measures		eat only in areas with appropropriate exhaust ventilation		Provide
Exposure limit(s)				
	Value	Exposure time	Exposure type	List:
Exposure limit(s) Components Carbon black	Value 3.5 mg/m3	Exposure time Time Weighted Average (TWA):	Exposure type Total dust. as carbon black	List: ACGIH
Components		Time Weighted Average	Total dust. as carbon	ACGIH
Components Carbon black	3.5 mg/m3	Time Weighted Average (TWA):	Total dust. as carbon black Total dust. as carbon	ACGIH
Components Carbon black Carbon black	3.5 mg/m3 3.5 mg/m3	Time Weighted Average (TWA): PEL: Time Weighted Average	Total dust. as carbon black Total dust. as carbon black	ACGIH OSHA ZI ACGIH
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#### MATERIAL SAFETY DATA SHEET

# GREEN

Version Number 1.1 Revision Date 04/12/2002		Page 4 of 6 Print Date 11/4/2011
Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Keep away from oxidizing agents and open flame.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents.
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.
557-05-1	Zinc stearate	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
557-05-1	Zinc stearate	Oral LD50	>10 gm/kg	rat

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

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.

## Additional Health Hazard Information:



#### MATERIAL SAFETY DATA SHEET

# GREEN

Version Number 1.1	Page 5 of 6
Revision Date 04/12/2002	Print Date 11/4/2011

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.

	12. ECOLOGICAL INFORMATION
Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use
Bioaccumulation Potential	: Does not bioaccumulate
Additional advice	: No data available.
	13. DISPOSAL CONSIDERATIONS
Product	: 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 materia 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. D.O.T. / CA T.D.G. Classification (Non-bulk ground)	: Not regulated for transportation.
ICAO/IATA	: Not regulated for transportation.
IMO / IMDG	: Not regulated for transportation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on the TSCA inventory or are



## MATERIAL SAFETY DATA SHEET

# GREEN

Version Number 1.1 Revision Date 04/12/2002					Print D	Page 6 of ate 11/4/201	
		exempt.					
California Proposition 65	:	This product does	not contain a su	bstanc	e listed by Califo	rnia Prop 65.	
SARA Title III Section 313 Toxi	ic (	Chemicals:					
Chemical Name ZINC COMPOU	ND	S	CAS-No. 557-05-1		Weight % 1.11	]	
Canadian Regulations:						-	
WHMIS Classification	:	D2B					
WHMIS Ingredient Discl	ost	ire List					
CAS-No. 1333-86-4 557-05-1							
DSL	:	Listed.					
National Inventories:							
Australia AICS	:	Listed.					
China IECS	:	Listed.					
Europe EINECS	:	Listed.					
Japan ENCS	:	Not determined.					
Korea KECI	:	Listed.					
Philippines PICCS	:	Listed.					
		16. OTHER INF	ORMATION				

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.