

MATERIAL SAFETY DATA SHEET

GREEN

Version Number 1.0 Revision Date 12/02/2001 Page 1 of 6 Print Date 11/2/2011

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	:	CC10005989
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	10 - 30
Titanium dioxide	13463-67-7	30 - 60

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some fumes may be released upon heating or crosslinking and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect his employee from exposure. See Sections 3 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation	: Resin particles, like other inert materials, can be mechanically irritating.
Ingestion	: 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.





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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 f overheating or combustion. When symptoms persist or in a doubt seek medical advice.	
Ingestion	: Do not induce vomiting without medical advice. When syn persist or in all cases of doubt seek medical advice.	nptoms
Eyes	Rinse immediately with plenty of water, also under the eyel least 15 minutes. If eye irritation persists, seek medical atte	
Skin	: Wash off with soap and plenty of water. If skin irritation per medical attention.	rsists see
	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 relevant Carbon dioxide blanket, water spray, dry powder, foam. Fullface self-contained breathing apparatus (SCBA) used in pressure mode should be worn to prevent inhalation of airbo contaminants. None 	-
	ACCIDENTAL RELEASE MEASURES	
Personal precautions	: Wear appropriate personal protection during cleanup, such a impervious gloves, boots and coveralls.	as
Environmental precautions	: Should not be released into the environment. The product s be allowed to enter drains, water courses or the soil.	hould no
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all maplastic, cardboard or metal containers for disposal. Refer to of this MSDS for proper disposal methods.	
	7. HANDLING AND STORAGE	
Handling	Take measures to prevent the build up of electrostatic charg only in areas with appropriate exhaust ventilation.	e Heat

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Carbon black 3.5 mg/m3 Time Weighted Average (TWA): Total dust. ACGI 3.5 mg/m3 PEL: Total dust. OSHA Titanium dioxide 10 mg/m3 Time Weighted Average (TWA): Total dust. OSHA Titanium dioxide 10 mg/m3 Time Weighted Average (TWA): Total dust. OSHA Zinc stearate 5 mg/m3 PEL: Total dust. OSHA 15 mg/m3 PEL: Total dust. OSHA 10 mg/m3 Time Weighted Average (TWA): as stearates ACGI PHYSICAL AND CHEMICAL PROPERTIES Form : Solid Evaporation rate : Not applicable Appearance : Pellets Specific Gravity : Not determine Color : GREEN Bulk density : Not establishe Odor : Very faint Vapor pressure : Not applicable	sion Date 12/02/2001			F	Page 3 Print Date <u>11/2/</u>
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 : Safety shoes. Measures : Safety shoes. General Hygiene : Handle in accordance with good industrial hygiene and safety prac Considerations : 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) : Time Weighted Average in the construction of the construction of the construction. Sis mg/m3 PEL: Total dust. ACGI (TWA): 15 mg/m3 PEL: Total dust. OSHA Zinc stearate 5 mg/m3 PEL: Total dust. OSHA 10 mg/m3 Time Weighted Average is stearates ACGI (TWA): OSHA 10 mg/m3 Time Weighted Average is stearates ACGI (TWA): OSHA 10 mg/m3 Time Weighted Averag	Storage		1 0		visture absorption
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10. STABILITY AND REACTIVITY	Boiling Point:	: Insol	uble		



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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.
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:



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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.

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	: No data available.
	13. DISPOSAL CONSIDERATIONS
Product	: 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.
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:	
ob Regulations.	



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OSHA Status	:	Classified as haza	ardous based on c	components.	
TSCA Status	:	All components o exempt.	f this product are	listed on the TSCA in	ventory or are
California Proposition 65	:	This product does	s not contain a sul	ostance listed by Califo	ornia Prop 65.
SARA Title III Section 313 To	xic C	hemicals:			
Chemical Name			CAS-No.	Weight %	7
ZINC COMPOU		2	557-05-1	10.00	-
WHMIS Ingredient Disc	closu	re List			
CAS-No. 1333-86-4 557-05-1 DSL	 :	Listed.			
1333-86-4 557-05-1	:	Listed.			
1333-86-4 557-05-1 DSL	:	Listed. Listed.			
1333-86-4557-05-1DSLNational Inventories:	:				
1333-86-4557-05-1DSLNational Inventories:Australia AICS	: : :	Listed.			
1333-86-4557-05-1DSLNational Inventories:Australia AICSChina IECS	:	Listed. Not determined.			
1333-86-4557-05-1DSLNational Inventories:Australia AICSChina IECSEurope EINECS	:	Listed. Not determined. 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 used in combination with any other materials or in any process, unless specified in the text.