

MATERIAL SAFETY DATA SHEET

GREEN

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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	:	GREEN
Product code	:	CC10006915
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products	70624-18-9	5 - 10
Carbon black	1333-86-4	1 - 5
Titanium dioxide	13463-67-7	5 - 10
Rutile, antimony chromium buff	68186-90-3	10 - 30

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 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.	





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Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions	: None known.
Aggravated by Exposure:	
	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 seek medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Autoignition temperature	: Not relevant
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, dry powder, foam.
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures	pressure mode should be worn to prevent inhalation of airborne
	contaminants.
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 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 13 of this MSDS for proper disposal methods.



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	7. HANDLING AND STORAGE	
Handling	: Take measures to prevent the build up of electrostatic charg only in areas with appropriate exhaust ventilation.	je. Heat
Storage	: Keep containers dry and tightly closed to avoid moisture ab and contamination. Keep in a dry, cool place.	sorption
8. EXF	SURE CONTROLS / PERSONAL PROTECTION	
Respiratory protection	: No personal respiratory protective equipment normally requ	iired.
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 safe Wash hands before breaks and at the end of workday.	ty practice.
Engineering measures	: Heat only in areas with appropriate exhaust ventilation. Pro appropriate exhaust ventilation at machinery.	ovide

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
	3.5 mg/m3	PEL:	Total dust.	OSHA Z1
Rutile, antimony	0.5 mg/m3	Time Weighted Average	Total dust. as Cr	ACGIH
chromium buff		(TWA):		
	0.5 mg/m3	PEL:	Total dust. as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average	as Sb	ACGIH
		(TWA):		
	0.5 mg/m3	PEL:	Total dust. as Sb	OSHA Z1
Titanium dioxide	10 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color
- : Solid : Pellets : GREEN

Evaporation rate:Not applicable.Specific Gravity:Not determinedBulk density:Not established

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Odor Melting point/range Boiling Point: Water solubility		por pressure : Not applicable por density : Not applicable : Not applicable
	10. STABILITY AND REACT	ΓΙVITY
Stability	: Stable.	
Hazardous Polymerization	: Will not occur.	
Conditions to avoid	: Keep away from oxidizing a decomposition, do not overh	gents and open flame. To avoid thermal eat.
Incompatible Materials	: Incompatible with strong aci	ds and oxidizing agents.
Hazardous decomposition products		on monoxide (CO), oxides of nitrogen erials, and smoke are all possible.
	11. TOXICOLOGICAL INFOR	MATION

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
70624-18-9	1,6-Hexanediamine,	Highly Toxic	Refer to MSDS for Toxicity
	N,N'-bis(2,2,6,6-tetrameth		Data
	yl-4-piperidinyl)-,polymer		
	with		
	2,4,6-trichloro-1,3,5-triazi		
	ne, reaction products		
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
68186-90-3	Rutile, antimony	Irritant	Eyes, Skin.
	chromium buff		

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
	70624-18-9	1,6-Hexanediamine,	LC50	112 mgm34H	rat
		N,N'-bis(2,2,6,6-tetrameth	Oral LD50	9,910 mg/kg	rat
		yl-4-piperidinyl)-,polymer with			
		2,4,6-trichloro-1,3,5-triazi			
		ne, reaction products			



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1333-86-4	1	Carbon black	Oral LD50	>15,400 mg/kg	rat
			Dermal LD50	> 3 gm/kg	rabbit

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:

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:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

12. ECOLOGICAL INFORMATION

Persistence and degradability	Not readily biodegradable.	
Environmental Toxicity	Chemicals are not readily available as they are bound within the of the polymer.	matrix
Bioaccumulation Potential	Chemicals are not readily available as they are bound within the of the polymer.	matrix
Additional advice	No data available.	
	13. DISPOSAL CONSIDERATIONS	
Product	Like most thermoplastics the product can be recycled. Where p	ossible





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Contaminated packaging	 waste material ha transportation and state/provincial and Recycling is prefet has the responsibility 	rred to disposal or inci s the responsibility for d disposal in accordance and local regulations. erred when possible. The ality for proper waste of coordance with applica	r proper waste clas ce with applicable The generator of wa classification, trans	sification, federal, aste material portation
	and local regulation		ible lederal, state/p	rovinciai
	14. TRANSPORT	INFORMATION		
U.S. D.O.T. / CA T.D.G. : Not regulated for transportation. Classification (Non-bulk ground)				
ICAO/IATA	: Not regulated for	transportation.		
IMO / IMDG	: Not regulated for	transportation.		
	15. REGULATORY	INFORMATION		
US Regulations:				
OSHA Status	: Classified as haza	Classified as hazardous based on components.		
TSCA Status	: All components o exempt.	: All components of this product are listed on the TSCA inventory or are exempt.		
California Proposition : This product does not contain a substance listed by 65		ce listed by Califor	nia Prop 65.	
SARA Title III Section 313 To:	xic Chemicals:			
Chemical Name		CAS-No.	Weight %	

Chemical Name	CAS-No.	Weight %
CHROMIUM III COMPOUNDS	68186-90-3	17.50
ANTIMONY COMPOUNDS		

Canadian Regulations:

WHMIS Classification : D1A

WHMIS Ingredient Disclosure List

CAS-No.	
1333-86-4	
68186-90-3	

DSL

: Listed.

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National Inventories:		
Australia AICS	: Listed.	
China IECS	: Listed.	
Europe EINECS	: Not determined.	
Japan ENCS	: Not determined.	
Korea KECI	: Not determined.	
Philippines PICCS	: Not determined.	
	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 used in combination with any other materials or in any process, unless specified in the text.