

MATERIAL SAFETY DATA SHEET

# **BLACK 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	:	BLACK GREEN
Product code	:	CC10005998
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

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

Components	CAS-No.	Weight %
1,6-Hexanediamine,	70624-18-9	5 - 10
N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)-,		
polymer with 2,4,6-trichloro-1,3,5-triazine,		
reaction products		
Carbon black	1333-86-4	0.1 - 1

### **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

<b>Routes of Exposure:</b>	: 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.



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Chronic exposure	: Refer to Section 11 for Toxicological Information.
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	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>Carbon dioxide blanket, water spray, dry powder, foam.</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	: 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 12 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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Handling		ake measures to pr nly in areas with a		ld up of electrostatic cl haust ventilation.	harge Heat	
Storage		eep containers dry nd contamination.		closed to avoid moistur y, cool place.	e absorption	
8. I	EXPOSURE	CONTROLS / Pl	ERSONAL I	PROTECTION		
Respiratory protection	: N	lo personal respira	tory protectiv	e equipment normally	required.	
Eye/Face Protection	: S	: Safety glasses with side-shields.				
Hand protection	: Protective gloves.					
Skin and body protection	: L	: 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		leat only in areas v ppropriate exhaust		ate exhaust ventilation. t machinery.	Provide	
Exposure limit(s)						
Components	Value	Exposure time		Exposure type	List:	
Carbon black	3.5 mg/m3	n3 Time Weighted Average (TWA):		Total dust.	ACGIH	
	3.5 mg/m3			Total dust.	OSHA Z	
	9. PHYSIC	CAL AND CHEM	ICAL PRO	PERTIES		
				ation rate · Not	t applicable.	
Form Appearance	: Solid : Pelle		Evapora Specific		t determined.	
Form Appearance Color	: Pelle : GRE	ets EN	Specific Bulk de	c Gravity : Not nsity : Not		
Appearance Color Odor	: Pelle : GRE : Very	ets EN faint	Specific Bulk de Vapor p	e Gravity : Not nsity : Not pressure : Not	t determined. t established t applicable	
Appearance Color Odor Melting point/range	: Pelle : GRE : Very : Not o	ts EN faint determined.	Specific Bulk de Vapor p Vapor c	c Gravity : Not nsity : Not pressure : Not lensity : Not	t determined. t established t applicable t applicable	
Appearance Color Odor	: Pelle : GRE : Very : Not o	ts EN faint determined. applicable	Specific Bulk de Vapor p	c Gravity : Not nsity : Not pressure : Not lensity : Not	t determined. t established t applicable	
Appearance Color Odor Melting point/range Boiling Point:	: Pelle : GRE : Very : Not o : Not a : Insol	ts EN faint determined. applicable	Specific Bulk de Vapor p Vapor c pH	e Gravity : Not nsity : Not pressure : Not lensity : Not : Not	t determined. t established t applicable t applicable	

Hazardous Polymerization : Will not occur. : Keep away from oxidizing agents and open flame. To avoid thermal

Conditions to avoid



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Hazardous decompo products This mixture has not health data for the in <u>Toxicity Overview</u>	als : Incompatible w sition : Carbon dioxide	(CO2), carbon mo izardous materials, CAL INFORMAT ealth effects. Exp aprise the mixture.	osure effects listed	possible.	
health data for the in <u>Toxicity Overview</u>	sition : Carbon dioxide (NOx), other ha 11. TOXICOLOGIC been evaluated as a whole for h dividual components which com	(CO2), carbon mo izardous materials, CAL INFORMAT ealth effects. Exp aprise the mixture.	onoxide (CO), oxide and smoke are all <b>TION</b> osure effects listed	possible.	
products This mixture has not health data for the in <u>Toxicity Overview</u>	(NOx), other hat <b>11. TOXICOLOGIC</b> been evaluated as a whole for h dividual components which com	Zardous materials, CAL INFORMAT ealth effects. Exp aprise the mixture.	and smoke are all	possible.	
health data for the in <u>Toxicity Overview</u>	been evaluated as a whole for h dividual components which com	ealth effects. Exp pprise the mixture.	osure effects listed		
health data for the in <u>Toxicity Overview</u>	dividual components which con	prise the mixture.			
		r		ng characteristi	
CAS-No.	Chemical Name	Effect	Targ	Target Organ	
70624-18-9	1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetrameth yl-4-piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5-triazi ne, reaction products	Highly Toxic	Refer to MSD Data	Refer to MSDS for Toxicity Data	
1333-86-4	Carbon black	Systemic effects	Eyes, Respirat	tory system.	
LC50 / LD50 This product contain CAS-No. 70624-18-9	s the following components whi Chemical Name 1,6-Hexanediamine, N,N'-bis(2,2,6,6-tetrameth yl-4-piperidinyl)-,polymer with 2,4,6-trichloro-1,3,5-triazi ne, reaction products	ch in their pure for Route LC50 Oral LD50	rm have the followi Value 112 mgm34H 9,910 mg/kg	ng toxicity data Species rat rat	
1333-86-4	Carbon black	Oral LD50 Dermal LD50	> 15,400 mg/kg > 3 gm/kg	rat rabbit	
Carcinogenicity: This product contain data:	s the following components whi	ch in their pure for	rm have the followi	ng carcinogenic	

IARC Carcinogen Classifications:

1333-86-4

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

Carbon black

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

no

2B

no



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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.

	12. ECOLOGICAL INFORMATION
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 material 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

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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 exempt.				
California Proposition 65	:	This product does not contain a substance listed by California Prop 65.				
Canadian Regulations:						
WHMIS Classification	:	D1A				
WHMIS Ingredient Disc	WHMIS Ingredient Disclosure List					
CAS-No. 1333-86-4						
DSL	:	Listed.				
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				

### **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.