## MATERIAL SAFETY DATA SHEET HDPE BLACK

Version Number 1.1 Revision Date 03/12/2007 Page 1 of 6 Print Date 11/26/2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

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

Telephone <b>Emergency telephone mumber</b>	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	HDPE BLACK
Product code	:	CC10061836
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Carbon black	1333-86-4	1 - 5

### **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	<ul><li>Resin particles, like other inert materials, can be mechanically irritating.</li><li>May be harmful if swallowed.</li></ul>
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.
Medical Conditions Aggravated by Exposure:	: None known.

PolyOne.

# MATERIAL SAFETY DATA SHEET HDPE BLACK

Version Number 1.1 Revision Date 03/12/2007 Page 2 of 6 Print Date 11/26/2011

		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	: : :	Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone.
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	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL 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.
		7. HANDLING AND STORAGE
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

2/6



## MATERIAL SAFETY DATA SHEET HDPE BLACK

Version Number 1.1 Revision Date 03/12/2007 Page 3 of 6 Print Date 11/26/2011

8. H	EXPOSURE	CONTROLS / PERSONA	AL PROTECTION	
Respiratory protection	: N	o personal respiratory prot	ective equipment normally	required.
Eye/Face Protection	: S	afety glasses with side-shie	elds.	
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		andle in accordance with g ash hands before breaks a		safety practice
Engineering measures		eat only in areas with appr ppropriate exhaust ventilati		. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):		ACGIH
	3.5 mg/m3	PEL:	Total dust. as carbon black	OSHA Z1
	9. PHYSIC	CAL AND CHEMICAL P	PROPERTIES	
Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	: Not a : Not a : Insol	ts Spe CK Bu faint Va letermined Va applicable pH	ecific Gravity: : No lk density : No por pressure : No pour density : No : No	ot applicable ot determined ot established ot applicable ot applicable ot applicable
	10. 5	IADILITI AND KEAC	11 / 11 1	
Stability	: S	table.		
Hazardous Polymerization	n : W	/ill not occur.		
Conditions to avoid		eep away from oxidizing a ecomposition, do not overh		avoid thermal
Incompatible Materials	· Ir	compatible with strong aci	ids and oxidizing agents	

## MATERIAL SAFETY DATA SHEET HDPE BLACK

#### Version Number 1.1 Revision Date 03/12/2007

Page 4 of 6 Print Date 11/26/2011

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.

### 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

### 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). The IARC 2B listing only pertains to airborne, unbound carbon black particles of respirable size. 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
: Not readily biodegradable.
: Chemicals are not readily available as they are bound within the polymer matrix.
: Chemicals are not readily available as they are bound within the polymer matrix.
: No data available
13. DISPOSAL CONSIDERATIONS
: Like most thermoplastic plastics the product can be recycled. Where



# MATERIAL SAFETY DATA SHEET HDPE BLACK

sion Number 1.1 /ision Date 03/12/2007	Page 5 of Print Date 11/26/201
Contaminated packaging	<ul> <li>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.</li> <li>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.</li> </ul>
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Refer to specific regulation.
IMO / IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
US. EPA CERCLA Hazardou	s Substances (40 CFR 302)
Not applicable	
California Proposition 65	: Not applicable
SARA Title III Section 302 E	xtremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 T Unless specific chemicals are	oxic Chemicals: identified under this section, this product is Not Applicable under this regulation
Canadian Regulations:	
Cunatian Regulations.	

<u>PolyOne</u>

## MATERIAL SAFETY DATA SHEET HDPE BLACK

Version Number 1.1 Revision Date 03/12/2007				Pri	Page ( /nt Date <i>11/26</i>	
	so It	wantory (NDPI)				
National Pollutant Relea	se n	Ivenitory (INFKI)	CAS-No.	Weight %	NPRI ID#	
Phthalocyanine blue			147-14-8	1.00 - 5.00	71	
Phthalocyanine green			1328-53-6	0.10 - 1.00	71	
WHMIS Classification WHMIS Ingredient Disc CAS-No. 1333-86-4 147-14-8 1328-53-6 DSL		All components	s of this product (DSL) or are exe	are on the Canadian empt.	Domestic	
National Inventories:						
Australia AICS	:	Listed				
China IECS	:	Listed				
Europe EINECS	:	Listed				
Japan ENCS	:	Listed				
Korea KECI	:	Listed				
Philippines PICCS	:	Listed				
		16. OTHER I	NFORMATION	I		

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.