MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007

Page 1 of 7 Print Date 11/26/2011

1. PRODUCT AND COMPANY IDENTIFICATION POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	Product Stewardship (440) 930-1395 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	AT-0215071 BLACK
Product code	:	EM10012280
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	5 - 10

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

Routes of Exposure:	: Inhalation, Ingestion, Skin contact		
Acute exposure			
Inhalation	: Particulates, like other inert materials can be mechanically irritating. If overheated or burnt, the polymer releases formaldehyde.		
Ingestion	: May be harmful if swallowed.		
Eyes	: Particulates, like other inert materials can be mechanically irritating.		
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.		

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MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007 Page 2 of 7 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 o 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 see 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 Unusual Fire/Explosion Hazards	 Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. May burn with invisible flame.
	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 1 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Open container only in a well-ventilated area. Heat only in areas with



MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

ion Number 1.0 sion Date 02/16/2007				Print D	Page ate 11/26,
	ar	opropriate exhaust ve	entilation.		
Storage		eep containers dry a nd contamination. K		closed to avoid moisture ry, cool place.	absorption
8. 1	EXPOSURE	CONTROLS / PER	SONAL	PROTECTION	
Respiratory protection	W in po	Then temperatures exactly adequate to maintain	ceed 230 n concentr espirator.	ve equipment normally r °C (446°F) and ventilation rations below exposure line Air purifying respirators	on is mits, use a
Eye/Face Protection		afety glasses with sider abnormal procession		. Wear face-shield and p	rotective su
Hand protection	: P	rotective gloves.			
Skin and body protection	: L	ong sleeved clothing			
Additional Protective Measures	: Sa	: Safety shoes.			
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety pract Wash hands before breaks and at the end of workday.				afety practio
Engineering measures Exposure limit(s)		eat only in areas wit opropriate exhaust ve		iate exhaust ventilation. at machinery.	Provide
Components	Value	Exposure tin	ne	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted A (TWA):		Total dust. as carbon black	ACGIH
	3.5 mg/m3	PEL:		Total dust. as carbon black	OSHA Z
	9. PHYSIC	CAL AND CHEMI	CAL PRO	PERTIES	
Form	: Solid	l	Evapo	ration rate : Not	applicable
Appearance	: Pelle	ts, Slabs			determined
Color	: BLA		Bulk d		established
Odor		aldehyde			applicable
Melting point/range Boiling Point:		letermined applicable	Vapou pH		applicable applicable
Doming Form.	: Insol		pm	. Not	applicable
Water solubility					
Water solubility	10. S	TABILITY AND R	REACTIV	ITY	
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MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007 Page 4 of 7 Print Date 11/26/2011

Stability	:	Stable.
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	Maintain polymer temperature below 230°C (446°F). Avoid prolonged exposure at or above recommended processing temperature.
Incompatible Materials	:	Incompatible with strong oxidizers and with strong acids and bases (decomposes to form formaldehyde). At melt temperatures, acetal resins are incompatible with halogenated polymers such as vinyl (PVC) and any elastomers containing any halogenated polymers. At processing conditions, these materials are mutually destructive and involve rapid degradation. Even small amounts of such contaminants can cause sudden and spontaneous formaldehyde gas formation. Workplace fume well above threshold levels are a likely result. Unsafe pressurization of equipment such as extruder or mold can also result. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of halogenated materials from coming in contact with the acetal. Prevent contamination of virgin or rework resin.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. Decomposition of this material depends on the lenght of time it is exposed to elevated temperatures. At the recommended processing temperature of 210°C-220°C (410°F-428°F), decomposition should not be significant until after 30 minutes. Decomposition may be accelerated by contaminants, pigments and/or other additives.

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:

PolyOne

MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007

Page 5 of 7 Print Date 11/26/2011

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). 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

Environmental Toxicity	•	Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	:	Not applicable
	13	3. DISPOSAL CONSIDERATIONS
Product	:	Like most thermoplastic plastics 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.
	1	4. 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

PolyOne.

MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007	Page 6 of 7 Print Date 11/26/2011
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 Hazardous Subs	stances (40 CFR 302)
Not applicable	
California Proposition : 65	Not applicable
SARA Title III Section 302 Extreme	ely Hazardous Substance
Unless specific chemicals are identi	fied under this section, this product is Not Applicable under this regulation
	N 1
SARA Title III Section 313 Toxic C	
Unless specific chemicals are identi	fied under this section, this product is Not Applicable under this regulation
Canadian Regulations:	
National Pollutant Release Ir	nventory (NPRI)
Not applicable	
WHMIS Classification :	D2A
WHMIS Ingredient Disclosu	ire List
CAS-No. 1333-86-4	
DSL :	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	
Australia AICS :	Listed
China IECS :	Listed
Europe EINECS :	Listed
Japan ENCS :	Not determined

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MATERIAL SAFETY DATA SHEET AT-0215071 BLACK

Version Number 1.0 Revision Date 02/16/2007

Page 7 of 7 Print Date 11/26/2011

Korea KECI : Listed

Philippines PICCS : Listed

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.