PolvOne.

MATERIAL SAFETY DATA SHEET Onflex-V 1060A-0003 Black

Version Number 1.1 Revision Date 01/21/2011

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	Onflex-V 1060A-0003 Black
Product code	:	EM10005244
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight percent
Carbon black	1333-86-4	1 - 5
Zinc oxide	1314-13-2	1 - 5
Zinc stearate	557-05-1	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

Routes of Exposure:	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes Skin	 Particulates, like other inert materials can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. 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 from overheating or combustion. When symptoms persist or in all cases 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 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 Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positiv 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.
	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 n 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

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ners dry and tightly closed to avoid moisture absorption nation. Keep in a dry, cool place.
DLS/PERSONAL PROTECTION
respiratory protective equipment normally required.
es with side-shields
loves
d clothing
5
ccordance with good industrial hygiene and safety ash hands before breaks and at the end of workday.
areas with appropriate exhaust ventilation. Provide exhaust ventilation at machinery.

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Components	Value	Exposure time	Exposure type	List:
Carbon black	3.5 mg/m3	Time Weighted Average (TWA):		ACGIH
	3.5 mg/m3	Recommended exposure limit (REL):		NIOSH
	0.1 mg/m3	Recommended exposure limit (REL):		NIOSH
	3.5 mg/m3	PEL:		OSHA Z1
	3.5 mg/m3	Time Weighted Average (TWA):		OSHA Z1A
	3.5 mg/m3	Time Weighted Average (TWA):		MX OEL
	7 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Inhalable fraction.	ACGIH NIC
Zinc oxide	2 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
	10 mg/m3	Short Term Exposure Limit (STEL):	Respirable fraction.	ACGIH
	5 mg/m3	Recommended exposure limit (REL):	Fume.	NIOSH
	5 mg/m3	Recommended exposure limit (REL):	Dust.	NIOSH
	15 mg/m3	Ceiling Limit Value and Time Period (if specified):	Dust.	NIOSH
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	NIOSH
	5 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	OSHA Z1A
	5 mg/m3	Time Weighted Average (TWA):	Fume.	MX OEL
	10 mg/m3	Time Weighted Average (TWA):	Dust.	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	Fume.	MX OEL
Zinc stearate	5 mg/m3	Recommended exposure limit (REL):	Respirable.	NIOSH
	10 mg/m3	Recommended exposure limit (REL):	Total	NIOSH

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5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
15 mg/m3	PEL:	Total dust.	OSHA Z1
5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	OSHA Z1A
10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
10 mg/m3	Time Weighted Average (TWA):		MX OEL
20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
10 mg/m3	Time Weighted Average (TWA):		ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility
- : solid : pellets, Slabs : BLACK : very faint : Not determined : not applicable : insoluble
- Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density pН
- : Not applicable : Not determined : Not established
- : not applicable
- : not applicable
- : not applicable

10. STABILITY AND REACTIVITY

Stability	:	Stable
Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Strong acids, oxidizing and reducing 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.
1314-13-2	Zinc oxide	Systemic effects	Respiratory system.
557-05-1	Zinc stearate	Systemic effects	Eyes, Skin, Respiratory
			system.

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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
1314-13-2	Zinc oxide	LC50	2500 mg/m3	mouse
		LC50		mouse
		Oral LD50	7,950 mg/kg	mouse
557-05-1	Zinc stearate	Oral LD50	>10 gm/kg	rat

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.	
: not applicable	
13. DISPOSAL CONSIDERATIONS	
: 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.	;
: 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.	
	 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. not applicable 13. DISPOSAL CONSIDERATIONS 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. 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.

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	1	4. TRANSPORT INFO	RMATIO	N		
U.S. DOT Classification	:	Not regulated for transp	ortation.			
ICAO/IATA	:	Refer to specific regulat	ion.			
IMO/IMDG (maritime)	:	Refer to specific regulat	ion.			
		. REGULATORY INFO	ORMATIO	ON		
US Regulations:						
OSHA Status		Classified as become			4	
OSHA Status	·	Classified as hazardous	based off c	componen	ls.	
TSCA Status	:	All components of this TSCA Inventory.	product ar	e listed or	or exer	npt from the
US. EPA CERCLA Hazardo	us Sub	stances (40 CFR 302)				
not applicable						
65						
SARA Title III Section 302	Extrem	ely Hazardous Substance				
Unless specific chemicals ar	e identi	fied under this section th	is product	is Not Ar	nlicable	under this regulat
emess specific chemicals a	e raenti		is product	10110111	phonone	ander and regard
		Chemicals:				
SARA Title III Section 313	Toxic (
			is product	is Not Ap	plicable	under this regulat
Unless specific chemicals ar Chemical Name			is product CAS-N		Weight	t percent
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS			CAS-N 1314-13	lo. 3-2	Weight 1.00 -	t percent 5.00
Unless specific chemicals ar Chemical Name			CAS-N	lo. 3-2	Weight	t percent 5.00
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS ZINC COMPOUNDS			CAS-N 1314-13	lo. 3-2	Weight 1.00 -	t percent 5.00
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS ZINC COMPOUNDS Canadian Regulations:	e identi	fied under this section, th	CAS-N 1314-13	lo. 3-2	Weight 1.00 -	t percent 5.00
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS ZINC COMPOUNDS Canadian Regulations: National Pollutant Re	e identi	fied under this section, th	CAS-N 1314-13 557-05-	10. 3-2 1	Weight 1.00 - 1.00 -	t percent 5.00 5.00
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS ZINC COMPOUNDS Canadian Regulations:	e identi	fied under this section, th	CAS-N 1314-13 557-05-	To. 3-2 1 Weigh	Weight 1.00 - 1.00 -	t percent 5.00
Unless specific chemicals ar Chemical Name ZINC COMPOUNDS ZINC COMPOUNDS Canadian Regulations: National Pollutant Re	e identi	fied under this section, th	CAS-N 1314-13 557-05-	10. 3-2 1	Weight 1.00 - 1.00 - t t	t percent 5.00 5.00

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WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.
1333-86-4
1314-13-2
557-05-1

DSL

DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

National Inventories:

Australia AICS	: Not determined
China IECS	: Not determined
Europe EINECS	: Listed
Japan ENCS	: Not determined
Korea KECI	: Not determined
Philippines PICCS	: Not determined

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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.