PolvOne

MATERIAL SAFETY DATA SHEET TPE BLACK C

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	TPE BLACK C
Product code	:	CC10149856
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Rutile, antimony chromium buff	68186-90-3	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	8007-18-9	5 - 10
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	: 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.



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	: Experience shows no unusual dermatitis hazard from routine handlin
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 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. FIREFIGHTING MEASURES
Flash point	: not applicable
I. I.	· ····································
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media	 not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam.
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature	 not applicable not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion	 not applicable not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition 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 positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition 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 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.
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition 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 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. ACCIDENTAL RELEASE MEASURES Wear appropriate personal protection during cleanup, such as

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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 and contamination. Keep in a dry, cool place.
8. EX	POSU	RE CONTROLS/PERSONAL PROTECTION
Respiratory protection	:	No personal respiratory protective equipment normally required.
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 safety practice. Wash hands before breaks and at the end of workday.
Engineering measures	:	Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

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Components	Value	Exposure time	Exposure type	List:
Nickel antimony	0.015	Recommended exposure	as Ni	NIOSH
yellow rutile (C.I.	mg/m3	limit (REL):		
Pigment Yellow 53)				
	1 mg/m3	PEL:	as Ni	OSHA Z1
	1 mg/m3	Time Weighted Average (TWA):	as Ni	OSHA Z1A
	0.2 mg/m3	Time Weighted Average (TWA):	Inhalable fraction. as Ni	ACGIH
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL
Carbon black	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
Rutile, antimony chromium buff	0.5 mg/m3	Recommended exposure limit (REL):	as Cr	NIOSH
	0.5 mg/m3	PEL:	as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	Recommended exposure limit (REL):	as Sb	NIOSH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	OSHA Z1A
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A

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	10 mg/m3	Time Weighted Avera (TWA):	ige as T	ï	MX OEL
	20 mg/m3	Short Term Exposure L (STEL):	imit as T	ï	MX OEL
		CAL AND CHEMICAL	DDODEDTIES		
	9. 11130	LAL AND CHEMICAL	PROPERTIES		
Form	: solid	E	vapouration rate	: N	ot applicable
Appearance	: pelle	ts S	pecific Gravity	: N	ot determined
Colour	: BLA		ulk density	: N	ot established
Odour	: very	faint V	apour pressure	: n	ot applicable
Melting point/range	: Not	determined V	apour density	: n	ot applicable
Boiling Point:	: not a	: not applicable pH		: n	ot applicable
Water solubility	: insol	uble			
	10. 5	STABILITY AND REA	CHVITY		
Stability	: Т	The product is stable if sto	red and handled as J	prescrib	ed.
Stability Hazardous Polymerizatior		'he product is stable if sto Vill not occur.	red and handled as j	prescrib	ed.
	1 : V : K	-	agents and open fla	-	
Hazardous Polymerization	n : V : K d	Vill not occur. Leep away from oxidizing	g agents and open fla rheat.	ame. To	

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
68186-90-3	Rutile, antimony	Irritant	Eyes, Skin, Respiratory
	chromium buff		system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
8007-18-9	Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	Irritant	Eyes, Skin.
		sensitizer	Skin.
1333-86-4	Carbon black Systemic effects Eyes, Respiratory s		Eyes, Respiratory system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

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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

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7	Titanium dioxide	no	2B	no
8007-18-9	Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	no	1	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:

Nickel antimony yellow rutile (C.I. Pigment Yellow 53) 8007-18-9 Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney and muscle effects.

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

Persistence and degradability	:	Not readily biodegradable.
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	:	no data available



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possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper was 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 federa state/provincial and local regulations. Local classification : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federa state/provincial and local regulations. U.S. DOT Classification : Not regulated for transportation. ICAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. US Regulations: : 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 Substances (40 CFR 302) not applicable		
material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federa state/provincial and local regulations. U.S. DOT Classification : Not regulated for transportation. ICAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. US Regulations: OSHA Status 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 Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the Sta California to cause cancer.	Product	generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with
U.S. DOT Classification : Not regulated for transportation. ICAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. 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 Hazardous Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the Statalifornia to cause cancer.	Contaminated packaging	material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal,
ICAO/IATA : Refer to specific regulation. IMO/IMDG (maritime) : Refer to specific regulation. IS. 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 Hazardous Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the Sta California in the California to cause cancer.		14. TRANSPORT INFORMATION
IMO/IMDG (maritime) : Refer to specific regulation. IS. 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 Hazardous Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the State California to cause cancer.	U.S. DOT Classification	: Not regulated for transportation.
IS. 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 Hazardous Substances (40 CFR 302) not applicable California Proposition 65 : WARNING! This product contains a chemical known to the Sta California to cause cancer.	ICAO/IATA	: Refer to specific regulation.
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 Hazardous Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the Sta G5 : California to cause cancer.	IMO/IMDG (maritime)	: Refer to specific regulation.
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TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) not applicable California Proposition 65 : WARNING! This product contains a chemical known to the State California to cause cancer.	US Regulations:	
TSCA Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) not applicable California Proposition : WARNING! This product contains a chemical known to the Sta 65 California to cause cancer.	OSHA Status	: Classified as hazardous based on components.
not applicable California Proposition : WARNING! This product contains a chemical known to the Sta 65 California to cause cancer.	TSCA Status	: All components of this product are listed on or exempt from the TSCA Inventory.
California Proposition : WARNING! This product contains a chemical known to the Sta 65 California to cause cancer.	US. EPA CERCLA Hazardou	is Substances (40 CFR 302)
65 California to cause cancer.	not applicable	
SARA Title III Section 302 Extremely Hazardous Substance	-	
-	SARA Title III Section 302 E	xtremely Hazardous Substance
Unless specific chemicals are identified under this section, this product is Not Applicable under this r	Unless specific chemicals are	identified under this section, this product is Not Applicable under this regul
SARA Title III Section 313 Toxic Chemicals:	SARA Title III Section 313 T	oxic Chemicals:

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Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Chemical Name	CAS-No.	Weight percent
NICKEL COMPOUNDSNICKEL	8007-18-9	5.00 - 10.00
COMPOUNDSANTIMONY COMPOUNDS		
CHROMIUM III COMPOUNDSCHROMIUM III	68186-90-3	1.00 - 5.00
COMPOUNDSANTIMONY		
COMPOUNDSCHROMIUM COMPOUNDS		

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight	NPRI ID#
		percent	
Nickel antimony yellow rutile (C.I. Pigment Yellow 53)	8007-18-9	5.00 - 10.00	
		5.00 - 10.00	
Rutile, antimony chromium buff	68186-90-3	1.00 - 5.00	

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

8007-18-9
1333-86-4
68186-90-3

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DSL

All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS:ListedChina IECS:ListedEurope EINECS:ListedJapan ENCS:ListedKorea KECI:ListedPhilippines 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,

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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.