

## SAFETY DATA SHEET

**DARK GREY**

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## DARK GREY

**Section 1. Identification**

GHS product identifier : DARK GREY  
Chemical name : Mixture  
CAS number : Mixture  
Other means of identification : CC00036753  
Product type : solid

**Relevant identified uses of the substance or mixture and uses advised against**

Product use : Industrial applications. Plastics.

Supplier's details : **POLYONE CORPORATION**  
33587 Walker Road, Avon Lake, OH 44012  
  
1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

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. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status :

Classification of the substance or mixture :

**GHS label elements**

Signal word : No signal word.  
Hazard statements : No known significant effects or critical hazards.

**Precautionary statements**

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General :  
Prevention :  
Response :  
Storage :  
Disposal :  
Supplemental label elements :  
Hazards not otherwise classified : Not available.

### Section 3. Composition/information on ingredients

Substance/mixture :  
Chemical name : Mixture  
Other means of identification : CC00036753

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	13.5093	13463-67-7
Carbon black	2.9223	1333-86-4
Iron oxide	1.028	1309-37-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact :  
Inhalation :  
Skin contact :  
Ingestion :

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#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

Eye contact :  
Inhalation :  
Skin contact :  
Ingestion :

##### Over-exposure signs/symptoms

Eye contact :  
Inhalation :  
Skin contact :  
Ingestion :

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician :  
Specific treatments :  
  
Protection of first-aiders :

See toxicological information (Section 11)

## **Section 5. Firefighting measures**

### Extinguishing media

Suitable extinguishing media :  
Unsuitable extinguishing media :

Specific hazards arising from the chemical :  
Hazardous thermal decomposition products :

Special protective actions for fire-fighters :  
Special protective equipment for fire-fighters :

## **Section 6. Accidental release measures**

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Personal precautions, protective equipment and emergency procedures

For non-emergency personnel :  
For emergency responders :

Environmental precautions :

Methods and materials for containment and cleaning up

Small spill :  
Large spill :

**Section 7. Handling and storage**Precautions for safe handling

Protective measures :  
Advice on general occupational hygiene :

Conditions for safe storage, including any incompatibilities :

**Section 8. Exposure controls/personal protection**Control parametersOccupational exposure limits

Ingredient name	Exposure limits
Carbon black	<b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 3.5 mg/m <sup>3</sup> <b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 3.5 mg/m <sup>3</sup> <b>NIOSH REL (1994-06-01)</b> Time Weighted Average (TWA) 3.5 mg/m <sup>3</sup> <b>Time Weighted Average (TWA)</b> <b>ACGIH TLV (2010-12-06)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 3 mg/m <sup>3</sup> Form: Inhalable fraction

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Iron oxide	<p><b>OSHA PEL 1989 (1989-03-01) as Fe</b> Short-term exposure limit (STEL). A limit value beyond which there should be no exposure and which refers to a period of fifteen minutes, unless otherwise stated. 10 ppm Form: total particulates</p> <p><b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 10 mg/m<sup>3</sup> Form: Total dust <b>PEL: Permissible Exposure Level 5 mg/m<sup>3</sup> Form: Respirable fraction</b></p> <p><b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 10 mg/m<sup>3</sup></p> <p><b>NIOSH REL (1994-06-01) as Fe</b> Time Weighted Average (TWA) 5 mg/m<sup>3</sup> Form: Dust and fumes</p> <p><b>NIOSH REL (1994-06-01)</b></p> <p><b>ACGIH TLV (2005-12-09)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 5 mg/m<sup>3</sup> Form: Respirable fraction</p>
Titanium dioxide	<p><b>OSHA PEL 1989 (1989-03-01)</b> PEL: Permissible Exposure Level 10 mg/m<sup>3</sup> Form: Total dust</p> <p><b>OSHA PEL (1993-06-30)</b> PEL: Permissible Exposure Level 15 mg/m<sup>3</sup> Form: Total dust</p> <p><b>NIOSH REL (1994-06-01)</b></p> <p><b>ACGIH TLV (1996-05-18)</b> TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m<sup>3</sup></p>

**Appropriate engineering controls** :  
**Environmental exposure controls** :

**Individual protection measures**

**Hygiene measures** :  
**Eye/face protection** :

**Skin protection**

**Hand protection** :  
**Body protection** :  
**Other skin protection** :  
**Respiratory protection** :

**Section 9. Physical and chemical properties**

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### Appearance

Physical state	:	solid [Pellets.]
Color	:	GREY
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	<b>Lower:</b> Not available. <b>Upper:</b> Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	<b>Dynamic:</b> Not available. <b>Kinematic:</b> Not available.

## Section 10. Stability and reactivity

Reactivity	:	
Chemical stability	:	
Possibility of hazardous reactions	:	
Conditions to avoid	:	
Incompatible materials	:	
Hazardous decomposition products	:	

## Section 11. Toxicological information

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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.

**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
<b>Remarks - Dermal:</b>	No applicable toxicity data			
Iron oxide				
<b>Remarks - Oral:</b>	No applicable toxicity data			
<b>Remarks - Inhalation:</b>	No applicable toxicity data			
<b>Remarks - Dermal:</b>	No applicable toxicity data			
Titanium dioxide				
<b>Remarks - Oral:</b>	No applicable toxicity data			
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.

**Eyes** : Mixture.Not fully tested.

**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**

**Skin** : Mixture.Not fully tested.

**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary**

: Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary**

: Mixture.Not fully tested.

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**Classification**

Product/ingredient name	OSHA	IARC	NTP
Carbon black		2B	
Iron oxide		3	
Titanium dioxide		2B	

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)****Specific target organ toxicity (repeated exposure)****Aspiration hazard**

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** :  
**Inhalation** :  
**Skin contact** :  
**Ingestion** :

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** :  
**Inhalation** :  
**Skin contact** :  
**Ingestion** :

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Short term exposure**

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

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Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

Potential chronic health effects

**Conclusion/Summary** : Mixture. Not fully tested.

**General** :  
**Carcinogenicity** :  
**Mutagenicity** :  
**Teratogenicity** :  
**Developmental effects** :  
**Fertility effects** :

Numerical measures of toxicityAcute toxicity estimates

Not available.

<b>Section 12. Ecological information</b>
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Toxicity

Product/ingredient name	Result	Species	Exposure
Carbon black			
<b>Remarks - Acute - Fish:</b>	No applicable toxicity data		
	Acute EC50 37.563 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Acute		
<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		
Iron oxide			
<b>Remarks - Acute - Fish:</b>	No applicable toxicity data		
<b>Remarks - Acute - Aquatic invertebrates.:</b>	No applicable toxicity data		

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<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		
Titanium dioxide			
	Acute LC50 > 1,000 Mg/l Marine water	Fish - Fish	96 h
<b>Remarks - Acute - Fish:</b>	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Acute		
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
<b>Remarks - Acute - Aquatic invertebrates.:</b>	Acute		
<b>Remarks - Acute - Aquatic plants:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Fish:</b>	No applicable toxicity data		
<b>Remarks - Chronic - Aquatic invertebrates.:</b>	No applicable toxicity data		
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<b>Remarks - Acute - Aquatic invertebrates.:</b>	Chemicals are not readily available as they are bound within the polymer matrix.		

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Persistence and degradability**

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Bioaccumulative potential**

Not available.

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available.

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Other adverse effects :

**Section 13. Disposal considerations****Section 14. Transport information**

U.S.DOT 49CFR : Not regulated for transportation.  
Ground/Air/Water

International Air : Not classified as dangerous goods under transport regulations.  
ICAO/IATA

International Water : Not classified as dangerous goods under transport regulations.  
IMO/IMDG

**Section 15. Regulatory information**

U.S. Federal regulations :  
DEA List I Chemicals (Precursor :  
Chemicals)  
DEA List II Chemicals (Essential :  
Chemicals)

**US. EPA CERCLA Hazardous Substances (40 CFR 302)****SARA 311/312**

Classification : Acute Health Hazard  
Chronic Health Hazard

**Composition/information on ingredients**

Name	%	Classification
Carbon black	2.9223	CH
Titanium dioxide	13.5093	CH

**SARA 313**

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Not applicable.

State regulationsInternational regulationsInventory list

Australia	:
Canada	:
China	:
Europe inventory	:
Japan	:
New Zealand	:
Philippines	:
Republic of Korea	:
Taiwan	:
Turkey	:
United States	:

<b>Section 16. Other information</b>
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History

Date of printing	:	04/25/2018
Date of issue/Date of revision	:	03/21/2018
Date of previous issue	:	10/07/2003
Version	:	1.2
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-

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