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Version Number 1.0 Revision Date 09/04/2015

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Page 1 of 15 Print Date 09/05/2015

# SAFETY DATA SHEET

#### 381G 15% BaSO4 Cool Gray 11C

Section 1. Identification		
GHS product identifier	:	381G 15% BaSO4 Cool Gray 11C
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	EM10036331
Product type	:	solid
Relevant identified uses of the subs	stance	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	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure
(with hours of operation)		or accident).CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire,
		exposure or accident).
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### 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	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.

#### GHS label elements

Version Number 1.0 Revision Date 09/04/2015 Page 2 of 15 Print Date 09/05/2015

Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
Precautionary statements		
General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

#### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture	
Chemical name	: Mixture	
Other means of identification	: EM10036331	

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	0.1 - 1	13463-67-7
Carbon black	0.1 - 1	1333-86-4

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

<u>PolyOne</u>

Version Number 1.0	Page 3 of 15
Revision Date 09/04/2015	Print Date 09/05/2015

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### **Potential acute health effects**

Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical att	entio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### **Section 5. Fire-fighting measures**

#### Extinguishing media

<u>PolyOne</u>

Version Number 1.0 Revision Date 09/04/2015 Page 4 of 15 Print Date 09/05/2015

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: sulfur oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel For emergency responders	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	ent ar	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

vOne.

Version Number 1.0 Revision Date 09/04/2015

#### Page 5 of 15 Print Date 09/05/2015

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits	
Titanium dioxide	OSHA PEL 1989 (1989-03-01)	
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust	
	ACGIH TLV (1996-05-18)	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 10 mg/m3	
Carbon black	OSHA PEL 1989 (1989-03-01)	
	PEL: Permissible Exposure Level 3.5 mg/m3	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 3.5 mg/m3	
	NIOSH REL (1994-06-01)	
	Time Weighted Average (TWA) 3.5 mg/m3	
	Time Weighted Average (TWA)	
	ACGIH TLV (2010-12-06)	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
5/15		



#### Version Number 1.0 Revision Date 09/04/2015

#### Page 6 of 15 Print Date 09/05/2015

		Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction
Appropriate engineering controls Environmental exposure controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be
		necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

<u>PolyOne</u>

Version Number 1.0 Revision Date 09/04/2015 Page 7 of 15 Print Date 09/05/2015

### Section 9. Physical and chemical properties

#### **Appearance**

Dhysical state		solid [Pellets.]
Physical state	:	
Color	:	GREY
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	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	:	Lower: Not available.
(flammable) limits		Upper: 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-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
·		Kinematic: Not available.

## Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.

ne.

Version Number 1.0 Revision Date 09/04/2015 Page 8 of 15 Print Date 09/05/2015

# Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 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.

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 m	ig/kg -
Carbon black				
	LD50 Oral	Rat	15,400 mg	g/kg -
<b>Conclusion/Summary</b>	: Mixtu	re.Not fully t	ested.	
Irritation/Corrosion				
<b>Conclusion/Summary</b>				
Skin	: Mixtu	re.Not fully	ested.	
Eyes		re.Not fully		
Respiratory	: Mixtu	re.Not fully	ested.	
Sensitization				
<b>Conclusion/Summary</b>				
Skin		re.Not fully		
Respiratory	: Mixtu	re.Not fully	ested.	
<u>Mutagenicity</u>				
Conclusion/Summary	: Mixtu	re.Not fully	ested.	
<b>Carcinogenicity</b>				
Conclusion/Summary <u>Classification</u>	: Mixtu	re.Not fully	ested.	
Product/ingredient	OSHA LA	ARC	NTP	
name				
Titanium dioxide	21	B		

<u>PolyOne</u>

Version Number 1.0 Revision Date 09/04/2015 Page 9 of 15 Print Date 09/05/2015

Carbon black		2B	
<u>Reproductive toxicity</u>			
Conclusion/Summary	:	Mixture.Not fully t	ested.
-		1.11.1001 011 (30 1011) (	
<u>Teratogenicity</u>			
Conclusion/Summary	:	Mixture.Not fully t	ested.
Specific target organ toxicity	v (single exp	oosure)	
Not available.			
Specific target organ toxicity	(repeated	exposure)	
Not available.			
Aspiration hazard			
Not available.			
Information on the likely rou	tes of :	Not available.	
exposure			
Potential acute health effects			
Eye contact	:		ant effects or critical hazards.
Inhalation	:		ant effects or critical hazards.
Skin contact Ingestion			ant effects or critical hazards. ant effects or critical hazards.
ingestion	•		
Symptoms related to the phys	sical, chemi	cal and toxicologica	l characteristics
Eye contact	:	No specific data.	
Inhalation	:	No specific data.	
Skin contact	:	No specific data.	
Ingestion	:	No specific data.	
Delayed and immediate effect	ts and also	chronic effects from	short and long term exposure
Short term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	:	Not available.	
Long term exposure			

<u>PolyOne</u>

Version Number 1.0 Revision Date 09/04/2015 Page 10 of 15 Print Date 09/05/2015

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical measures of toxicity		

Acute toxicity estimates

Not available.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result		Species	Exposure
Carbon black				-
	Acute EC5	0 37.563 mg/l Fresh	Aquatic invertebrates.	48 h
	water		Water flea	
	Acute LC5	0 61.547 mg/l Fresh	Aquatic invertebrates.	48 h
	water		Water flea	
381G 15% BaSO4 Cool Gray	11C			
Remarks - Acute - Aquatic	Chemicals	are not readily available	as they are bound within the	e polymer matrix.
invertebrates.:				
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.			
Persistence and degradability	<u>v</u>			
Conclusion/Summary	:	Chemicals are not read polymer matrix.	ily available as they are bou	nd within the
Conclusion/Summary	: Chemicals are not readily available as they are bound within the			
		10/15		

Version Number 1.0 Revision Date 09/04/2015

#### Page 11 of 15 Print Date 09/05/2015

polymer matrix.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

Mobility in soil

**Disposal methods** 

Soil/water partition coefficient	:	Not available.
(KOC)		No known significant effects or critical hazards.
Other adverse effects	:	No known significant effects of critical nazards.

#### Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

#### Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

### Section 15. Regulatory information

PolyOne.

Version Number 1.0 Revision Date 09/04/2015 Page 12 of 15 Print Date 09/05/2015

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 5(a) 2 - Final significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 5(a) 2 - Proposed significant new use rules: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

<u>vOne</u>

Version Number 1.0 Revision Date 09/04/2015

Page 13 of 15 Print Date 09/05/2015

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### SARA 311/312

Classification

Not applicable.

:

#### **Composition/information on ingredients**

Name	%	Classification
Titanium dioxide	0.1 - 1	СН
Carbon black	0.1 - 1	СН

SARA 313 Not applicable.

**State regulations** 

Massachusetts	:	The following components are listed: Barium sulfate		
New York	:	None of the components are listed.		
New Jersey	:	The following components are listed: Barium sulfate Titanium dioxide Carbon black		
Pennsylvania	:	The following components are listed:		
-		Barium sulfate		
		Titanium dioxide		
		Carbon black		
California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause cancer.				
United States inventory (TSCA 8b)	:	All components are listed or exempted.		
Canada inventory	:	At least one component is not listed in DSL but all such components are listed in NDSL.		
International regulations				
International lists	:	Australia inventory (AICS): All components are listed or exempted. Taiwan inventory (CSNN): All components are listed or exempted.		
13/15				

Version Number 1.0 Revision Date 09/04/2015 Page 14 of 15 Print Date 09/05/2015

EINECS: All components are listed or exempted.
Japan inventory: Not determined.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
Philippines inventory (PICCS): Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals

- Not listed
- : Not listed
- : Not listed

#### Section 16. Other information

History		
Date of printing	:	09/05/2015
Date of issue/Date of revision	:	09/04/2015
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
e e e e e e e e e e e e e e e e e e e		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 73/78 = 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 abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

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Version Number 1.0 Revision Date 09/04/2015 Page 15 of 15 Print Date 09/05/2015