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SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 1 of 15 Print Date 02/04/2019

SAFETY DATA SHEET

SC-1618 G GRAY

Section 1. Identification		
GHS product identifier	:	SC-1618 G GRAY
Chemical name	:	Mixture
CAS number		Mixture
Other means of identification		FO01068136
Product type	:	solid
<u>Relevant identified uses of the subs</u> Product use	tance :	or mixture and uses advised against 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	:	While this material is not considered hazardous by the OSHA Haza Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of product. This SDS should be retained and available for employees a other users of this product.	
Classification of the substance or mixture	:	Not classified.	
GHS label elements			
Signal word	:	No signal word.	
		1/15	

SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 2 of 15 Print Date 02/04/2019

Hazard statements

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	:	FO01068136

CAS number/other identifiers

Ingredient name	%	CAS number
Octamethylcyclotetrasiloxane	0.3 - 1	556-67-2
Titanium dioxide	0.3 - 1	13463-67-7

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

: 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.

SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019

P	bh	vOne.

Page 3 of 15

Print Date 02/04/2019

Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable
Skin contact	:	for breathing. Get medical attention if symptoms occur. 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	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptom	<u>15</u>	
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medic	cal attentio	n and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment

Notes to physician Specific treatments	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Firefighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the	:	No specific fire or explosion hazard.
		3/15



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 4 of 15 Print Date 02/04/2019

chemical Hazardous thermal decomposition products	:	No specific data.
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	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and
For emergency responders	:	unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized 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 containmen	nt aı	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.

Section 7. Handling and storage

:

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8).



upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019	Print D	Page 5 of 15 ate 02/04/2019
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited i material is handled, stored and processed. Workers s and face before eating, drinking and smoking. Remo clothing and protective equipment before entering ea also Section 8 for additional information on hygiene	hould wash hands we contaminated ating areas. See
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in or protected from direct sunlight in a dry, cool and well away from incompatible materials (see Section 10) a drink. Keep container tightly closed and sealed until Containers that have been opened must be carefully	l-ventilated area, and food and ready for use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
Titanium dioxide		OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
Octamethylcyclotetrasiloxane		None.
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
		5/15



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0	Page 6 of 15
Revision Date 02/02/2019	Print Date 02/04/2019

Eye/face protection	 remove potentially contaminated clothing. Wash clothing before reusing. Ensure that eyewash statis showers are close to the workstation location. Safety eyewear complying with an approved stand when a risk assessment indicates this is necessary liquid splashes, mists, gases or dusts. If contact is following protection should be worn, unless the a higher degree of protection: safety glasses with si 	ons and safety dard should be used to avoid exposure to possible, the ssessment indicates a
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying standard should be worn at all times when handlin if a risk assessment indicates this is necessary.	
Body protection	Personal protective equipment for the body should on the task being performed and the risks involve approved by a specialist before handling this prod	d and should be
Other skin protection	: Appropriate footwear and any additional skin pro should be selected based on the task being perform involved and should be approved by a specialist b product.	tection measures ned and the risks
Respiratory protection	Based on the hazard and potential for exposure, so meets the appropriate standard or certification. Re used according to a respiratory protection program fitting, training, and other important aspects of us	espirators must be n to ensure proper

Section 9. Physical and chemical properties

Appearance

Physical state	:	solid [solid]
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.



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 7 of 15 Print Date 02/04/2019

Vapor density Relative density Solubility Solubility in water	:	Not available. Not available. Not available. insoluble in water.
Partition coefficient: n- octanol/water	:	Not available.
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.
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
Octamethylcyclotetrasiloxane				
	LD50 Oral	Rat	1,540 mg/kg	-
	LC50 Inhalation	Rat	36 Mg/l	4 h
	LD50 Dermal	Rat	1,770 mg/kg	-
Titanium dioxide				<u>.</u>
Remarks - Oral:	No applicable toxicity data			
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 8 of 15 Print Date 02/04/2019

	LD50 Dermal	Rabbit		> 5,000 mg/kg	-		
Conclusion/Summary	: Mixture.Not fully tested.						
Irritation/Corrosion							
In That folly Correspond							
Product/ingredient name	Result	Species	Score	Exposure	Observation		
Octamethylcyclotetrasiloxan	Eyes - Mild	Rabbit		24 hrs	-		
e	irritant						
	Skin - Mild	Rabbit		24 hrs	-		
Titanium dioxide	irritant Skin - Mild	I Income a com		70 has			
I itanium dioxide	irritant	Human		72 hrs	-		
Conclusion/Summary	IIInan						
Skin	: M	lixture.Not full	v tested.				
Eyes		lixture.Not full					
Respiratory		lixture.Not full					
			-				
Sensitization							
G I : /G							
Conclusion/Summary Skin	• M	livtura Not full	v tostad				
Skin Respiratory		lixture.Not full					
Respirator y	: Mixture.Not fully tested.						
Mutagenicity							
Conclusion/Summary	: Mixture.Not fully tested.						
Carcinogenicity							
Conclusion/Summary Classification	: M	lixture.Not full	y tested.				
Product/ingredient	OSHA	IARC	NTP				
name							
Titanium dioxide		2B					
<u>Reproductive toxicity</u>							
<u>_</u>							
Conclusion/Summary	: Mixture.Not fully tested.						
Teratogenicity							
Conclusion/Summary	: Mixture.Not fully tested.						
Specific target organ toxicit	v (single evnesu	re)					
Not available.	y (single exposu	<u>10)</u>					

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SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 9 of 15 Print Date 02/04/2019

<u>Specific target organ toxicity (repeated exposure)</u> Not available.				
:	Not available.			
:	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.			
, chemic	cal and toxicological characteristics			
	No specific data. No specific data. No specific data. No specific data. chronic effects from short and long-term exposure Not available.			
:	Not available.			
:	Not available. Not available.			
	Mixture.Not fully tested.			
: : : : : : : : : : : : : : : : : : : :	No known significant effects or critical hazards. No known significant effects or critical hazards.			
	: : : : : : : : : : : : : : : : : : :			

PolyOne

SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 10 of 15 Print Date 02/04/2019

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Octamethylcyclotetrasiloxane			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
	Chronic NOEC 0.0000044 Mg/l	Fish - Fish	93 d
	Fresh water		
Remarks - Chronic - Fish:	Chronic		
	Chronic NOEC 0.000002 -	Aquatic invertebrates.	21 d
	0.000015 Mg/l Fresh water	Daphnia	
Remarks - Chronic -	Chronic		
Aquatic invertebrates.:			
Titanium dioxide	L	1	-
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute		1
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
SC-1618 G GRAY			



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019

Page 11 of 15 Print Date 02/04/2019

Remarks - Acute - Aquatic invertebrates.:	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	<u>/</u>
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

Product/ingredient name	LogPow	BCF	Potential
Octamethylcyclotetrasiloxane	6.488	13,400.00	high

Mobility in soil

r	:	Not available.
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019

Page 12 of 15 Print Date 02/04/2019

Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	Not regulated for transportation.	
International Air ICAO/IATA	Not classified as dangerous goods under transpondent tran	port regulations.
International Water IMO/IMDG	Not classified as dangerous goods under trans	port regulations.

Section 15. Regulatory information

 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed 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 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: 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) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Disiloxane, 1,3-diethenyl-1,1,3,3-tetramethyl-Octamethylcyclotetrasiloxane Siloxanes and Silicones, di-Me, Me hydrogen
United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Benzene, methyl- United States - EPA Clean water act (CWA) section 311 -



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0	Page 13 of 15
Revision Date 02/02/2019	Print Date 02/04/2019

Hazardous substances: 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 - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b)	:	Listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I	:	Not listed
Substances Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor	:	Not listed
Chemicals) DEA List II Chemicals (Essential		Not listed
Chemicals)	•	not fisted

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

No products were found.

Name	%	Classification
Octamethylcyclotetrasiloxan	>= 0.3 - <= 1	Fire hazard - Immediate (acute) health hazard - Delayed
e		(chronic) health hazard
Titanium dioxide	>= 0.3 - <= 1	Delayed (chronic) health hazard

SARA 313

Not applicable.

State regulations		
Massachusetts	: None of the components are listed.	
New York	: None of the components are listed.	
New Jersey	: The following components are listed: Titanium dioxide	
Pennsylvania	: The following components are listed:	
	13/15	



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 14 of 15 Print Date 02/04/2019

Titanium dioxide

California Prop. 65

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	No.	No.

United States inventory (TSCA 8b)	:	Not determined.
Canada inventory	:	Not determined.
International regulations		
Inventory list		
Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Europe inventory	:	Not determined.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark



SAFETY DATA SHEET SC-1618 G GRAY

Version Number 1.0 Revision Date 02/02/2019 Page 15 of 15 Print Date 02/04/2019

and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

Histor		
Date of printing	:	02/04/2019
Date of issue/Date of revision	:	02/02/2019
Date of previous issue	:	00/00/0000
Version	:	1.0
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 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.