MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007

Page 1 of 7 Print Date 12/1/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	TS GRAY MARBLE
Product code	:	CC10104332
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Rutile, antimony chromium buff	68186-90-3	1 - 5
Titanium dioxide	13463-67-7	30 - 60

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	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Resin particles, like other inert materials, are mechanically irritating to
Skin	eyes.Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.

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MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007 Page 2 of 7 Print Date 12/1/2011

		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 of 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 at 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		Not applicable
Lower explosion limit	•	Not applicable
Autoignition temperature	•	Not applicable
Suitable extinguishing media	:	Carbon dioxide blanket, Water spray, Dry powder, Foam.
Special Fire Fighting Procedures	:	Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. A	CCIDENTAL 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 not 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 only in areas with appropriate exhaust ventilation.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption

2/7

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MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007 Page 3 of 7 Print Date 12/1/2011

	aı	nd contamination. Keep in a dr	y, cool place.				
8.]	8. EXPOSURE CONTROLS / PERSONAL PROTECTION						
Respiratory protection	: N	o personal respiratory protectiv	ve equipment normally	required.			
Eye/Face Protection	: S	afety glasses with side-shields					
Hand protection	: P:	rotective gloves					
Skin and body protection	: L	ong sleeved clothing					
Additional Protective Measures	: S	afety shoes					
General Hygiene Considerations		andle in accordance with good ash hands before breaks and at		safety practic			
Engineering measures		eat only in areas with appropriate propriate exhaust ventilation a		. Provide			
Exposure limit(s)							
Components	Value	Exposure time	Exposure type	List:			
Rutile, antimony chromium buff	0.5 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH			
chromium bull		$(\mathbf{I} \mathbf{W} \mathbf{A}).$					
	0.5 mg/m3	PEL:	as Cr	OSHA Z			
	0.5 mg/m3 0.5 mg/m3	· · · · · ·	as Cr				
	-	PEL: Time Weighted Average	as Cr as Sb	OSHA ZI MX OEL ACGIH			
	0.5 mg/m3	PEL: Time Weighted Average (TWA): Time Weighted Average		MX OEL			

Rutile, antimony	0.5 mg/m3	Time Weighted Average	as Cr	ACGIH
chromium buff		(TWA):		
	0.5 mg/m3	PEL:	as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average		MX OEL
		(TWA):		
	0.5 mg/m3	Time Weighted Average	as Sb	ACGIH
		(TWA):		
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average	as Sb	MX OEL
		(TWA):		
Titanium dioxide	10 mg/m3	Time Weighted Average		ACGIH
		(TWA):		
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average	as Ti	MX OEL
	_	(TWA):		
	20 mg/m3	Short Term Exposure Limit	as Ti	MX OEL
		(STEL):		

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odour Melting point/range
- Solid
 pellets
 GREY
 Very faint
 Not determined
- Evaporation rate Specific Gravity Bulk density Vapour pressure Vapour density
- Not applicableNot determinedNot establishedNot applicableNot applicable



MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007

Page 4 of 7 Print Date 12/1/2011

	6		ot applicable soluble	рН	:	Not applicable
		10	. STABILITY AND RE	CACTIVITY		
S	tability	:	Stable.			
Н	lazardous Polymerization	:	Will not occur.			
C	conditions to avoid	:	Keep away from oxidizi decomposition, do not o	00	ne.	To avoid thermal
Ir	ncompatible Materials	:	Incompatible with stron	g acids and oxidizing ag	gen	ts.
	lazardous decomposition roducts	:	Carbon dioxide (CO2), (NOx), other hazardous			U

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 chromium buff	Irritant	Eyes, Skin, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

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

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:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

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MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007 Page 5 of 7 Print Date 12/1/2011

Bioaccumulation Potential : Chemicals are polymer matri Additional advice : No data availa I3. DISPOSAL : Product : Like most ther possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respondent	e not readily available as they are bound within the x. e not readily available as they are bound within the x. able CONSIDERATIONS rmoplastic plastics the product can be recycled. Where the product can be recycled. Where the set of the set
Bioaccumulation Potential : Chemicals are polymer matri Additional advice : No data availa 13. DISPOSAL : Product : Like most ther possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respon and disposal in and local regular	x. e not readily available as they are bound within the x. able CONSIDERATIONS CONSIDERATIONS rmoplastic plastics the product can be recycled. Where ling is preferred to disposal or incineration. The vaste material has the responsibility for proper waste transportation and disposal in accordance with eral, state/provincial and local regulations. referred when possible. The generator of waste materia isibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
Additional advice : No data availa I 3. DISPOSAL Product : Like most ther possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respon and disposal in and local regu	x. able CONSIDERATIONS rmoplastic plastics the product can be recycled. Where ling is preferred to disposal or incineration. The vaste material has the responsibility for proper waste transportation and disposal in accordance with eral, state/provincial and local regulations. referred when possible. The generator of waste materia isibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
13. DISPOSAL Product : Like most ther possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respon and disposal in and local regu	CONSIDERATIONS rmoplastic plastics the product can be recycled. Where ling is preferred to disposal or incineration. The vaste material has the responsibility for proper waste transportation and disposal in accordance with eral, state/provincial and local regulations. referred when possible. The generator of waste materia asibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
Product : Like most ther possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respon and disposal in and local regu	rmoplastic plastics the product can be recycled. Where ling is preferred to disposal or incineration. The vaste material has the responsibility for proper waste transportation and disposal in accordance with eral, state/provincial and local regulations. referred when possible. The generator of waste materia isibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
possible recyc generator of w classification, applicable fed Contaminated packaging : Recycling is p has the respon and disposal in and local regu	ling is preferred to disposal or incineration. The vaste material has the responsibility for proper waste transportation and disposal in accordance with eral, state/provincial and local regulations. referred when possible. The generator of waste materia sibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
has the respon and disposal in and local regu	sibility for proper waste classification, transportation n accordance with applicable federal, state/provincial lations.
14. TRANSPOR	PT INFORMATION
U.S. DOT Classification : Not regulated	for transportation.
ICAO/IATA (air) : Refer to specif	fic regulation.
IMO / IMDG (maritime) : Refer to specif	fic regulation.
15. REGULATO	RY INFORMATION
US Regulations:	
OSHA Status : Classified as h	nazardous based on components.
TSCA Status : All componer Inventory.	nts of this product are listed on or exempt from the TSCA
US. EPA CERCLA Hazardous Substances (40 CFF	R 302)
Not applicable	

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MATERIAL SAFETY DATA SHEET TS GRAY MARBLE

Version Number 1.0 Revision Date 09/20/2007 Page 6 of 7 Print Date 12/1/2011

California Proposition : Not applicable 65

SARA Title III Section 302 Extremely Hazardous Substance

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

SARA Title III Section 313 Toxic Chemicals:

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

Chemical Name	CAS-No.	Weight %
CHROMIUM III COMPOUNDSANTIMONY	68186-90-3	1.00 - 5.00
COMPOUNDS		

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

Chemical Name	CAS-No.	Weight %	NPRI ID#
Aluminum oxide	1344-28-1	0.10 - 1.00	13
Rutile, antimony chromium buff	68186-90-3	1.00 - 5.00	69
		1.00 - 5.00	17

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
68186-90-3	

DSL

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

National Inventories:

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

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MATERIAL SAFETY DATA SHEET **TS GRAY MARBLE**

Version Number 1.0 Revision Date 09/20/2007 Page 7 of 7 Print Date 12/1/2011

Philippines 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, 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.