## **GREY PVC**

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# SAFETY DATA SHEET

#### **GREY PVC**

Section 1. Identification	on	
GHS product identifier	:	GREY PVC
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10196392
Product type	:	solid
	tance	e 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 for health effects. All ingredients are bound in a PVC polymer matrix and potential for hazardous exposure as shipped is minimal. PVC resin is manufactured from Vinyl Chloride Monomer (VCM). PVC resin manufacturers take special efforts to strip residual VCM from their resins. Residual VCM in the resin is typically below 8.5 ppm. However, VCM is a known carcinogen. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions.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

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Signal word	:	No signal word.
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	:	CC10196392

#### CAS number/other identifiers

Ingredient name	%	CAS number
Diundecyl phthalate	5 - 10	3648-20-2
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters,	5 - 10	68515-48-0
C9-rich		
	2.5	1222.04
Carbon black	3 - 5	1333-86-4
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.

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## 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.
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	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

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

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)

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## **Section 5. Firefighting measures**

#### **Extinguishing media**

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	:	May emit Hydrogen Chloride (HCl).
decomposition products		Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds 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 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 containme	ent a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and

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Large spill

place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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

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) 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	
Carbon black	OSHA PEL 1989 (1989-03-01)	
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	TWA 3.5 mg/m3 <b>OSHA PEL (1993-06-30)</b> TWA 3.5 mg/m3 <b>NIOSH REL (1994-06-01)</b> TWA 3.5 mg/m3 TWA 0.1 mgPAH/m <sup>3</sup> <b>ACGIH TLV (2010-12-06)</b> TWA 3 mg/m3 Form: Inhalable fraction
Diundecyl phthalate	None.
1,2-Benzenedicarboxylic acid, di-C8-10- branched alkyl esters, C9-rich	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 : Eye/face protection :	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. 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
Body protection :	if a risk assessment indicates this is necessary. 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

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involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

:

#### Appearance

:	solid [Pellets.]
:	GREY
:	Not available.
:	Lower: Not available.
	Upper: Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	Not available.
:	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	<ul> <li>Stable under recommended storage and handling conditions (see Section 7).</li> </ul>



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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	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
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		· _				
Remarks - Oral:	No applicable toxi	No applicable toxicity data				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h		
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-		
Carbon black						
	LD50 Oral	Rat	15,400 mg/kg	-		
<b>Remarks - Inhalation:</b>	No applicable toxi	No applicable toxicity data				
<b>Remarks - Dermal:</b>	No applicable toxi	No applicable toxicity data				
Diundecyl phthalate						
Remarks - Oral:	No applicable toxi	city data				
<b>Remarks - Inhalation:</b>	No applicable toxi	city data				
<b>Remarks - Dermal:</b>	No applicable toxi	No applicable toxicity data				
1,2-Benzenedicarboxylic acid,	di-C8-10-branched	alkyl esters, C9-rich				
	LD50 Oral	Rat	10,000 mg/kg	-		
<b>Remarks - Inhalation:</b>	No applicable toxi	No applicable toxicity data				
<b>Remarks - Dermal:</b>	No applicable toxicity data					
Conclusion/Summary	: Mixture.Not fully tested.					

Conclusion/Summary

Mixture.Not fully tested.

#### **Irritation/Corrosion**

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



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1,2-Benzenedicarboxylic	Eyes - Mild	Rabbit			-		
acid, di-C8-10-branched	irritant						
alkyl esters, C9-rich							
Conclusion/Summary			_				
Skin		ixture.Not fully					
Eyes		ixture.Not fully					
Respiratory	: M	ixture.Not fully	tested.				
<b>Sensitization</b>							
Conclusion/Summary							
Skin	: M	ixture.Not fully	v tested.				
Respiratory		ixture.Not fully					
<u>Mutagenicity</u>							
Conclusion/Summary	: M	ixture.Not fully	v tested.				
<b>Carcinogenicity</b>							
Conclusion/Summary	: M	ixture.Not fully	v tested.				
Classification	• • • •						
Product/ingredient	OSHA	IARC	NTP				
name							
Titanium dioxide		2B					
Carbon black		2B					
<u>Reproductive toxicity</u>							
Conclusion/Summary	: M	ixture.Not fully	tested.				
<u>Teratogenicity</u>							
Conclusion/Summary	Conclusion/Summary : Mixture.Not fully tested.						
Specific target organ toxicity (single exposure)							
Not available.							
<b>Specific target organ toxicity</b> Not available.	y (repeated expo	osure)					
Aspiration hazard Not available.							
Information on likely routes exposure	of : N	ot available.					



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## Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical,	<u>chemi</u>	cal and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Delayed and immediate effects as y	<u>vell as</u>	chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
T on a forme orm occurs		
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	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		

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Not available.



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## Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure				
Titanium dioxide							
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h				
	water						
Remarks - Acute - Fish:		Acute					
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h				
		Crustaceans					
<b>Remarks - Acute - Aquatic</b>	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.: Carbon black							
Remarks - Acute - Fish:	No angliachla tariaita data						
Kemarks - Acute - Fish:	No applicable toxicity data	A quatia invartabratas	48 h				
	Acute EC50 37.563 Mg/l Fresh water	Aquatic invertebrates. Daphnia	40 11				
Remarks - Acute - Aquatic	Acute	Dapinna					
invertebrates.:	Acute						
Remarks - Acute - Aquatic	No applicable toxicity data						
plants:	No applicable toxicity data						
Remarks - Chronic - Fish:	No applicable toxicity data						
Remarks - Chronic -	No applicable toxicity data						
Aquatic invertebrates.:	i to applicable tomorey and						
Diundecyl phthalate							
Remarks - Acute - Fish:	No applicable toxicity data						
	Acute EC50 12 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						



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	Chronic NOEC 0.000059 Mg/l	Aquatic invertebrates.	21 d			
	Fresh water	Daphnia				
Remarks - Chronic -	Chronic					
Aquatic invertebrates.:						
1,2-Benzenedicarboxylic acid,	di-C8-10-branched alkyl esters, C9-ric	h				
Remarks - Acute - Fish:	No applicable toxicity data					
Remarks - Acute - Aquatic	No applicable toxicity data					
invertebrates.:						
Remarks - Acute - Aquatic	No applicable toxicity data	No applicable toxicity data				
plants:						
Remarks - Chronic - Fish:	No applicable toxicity data					
Remarks - Chronic -	No applicable toxicity data					
Aquatic invertebrates.:						
GREY PVC						
Remarks - Acute - Aquatic	Chemicals are not readily available a	s 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 readily available as they are bound within the polymer matrix.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
1,2-Benzenedicarboxylic acid, di-C8-	8.8	3.00	low
10-branched alkyl esters, C9-rich			

#### Mobility in soil

Soil/water partition coefficient	:	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
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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 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

## Section 15. Regulatory information

U.S. Federal regulations	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Listed 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich</li> </ul>
	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 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

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release prevention - Toxic substances: Not listed			<ul> <li>United States - TSCA 6 - Proposed risk management: Not listed</li> <li>United States - TSCA 8(a) - Chemical risk rules: Not listed</li> <li>United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined</li> <li>United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed</li> <li>United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed</li> <li>United States - TSCA 8(d) - Health and safety studies: Not listed</li> <li>United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Vinyl chloride monomer Rutile, antimony chromium buff</li> <li>United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental</li> </ul>
	Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Listed
	Clean Air Act Section 602 Class I Substances	:	Not listed
Hazardous Air Pollutants (HAPs) Clean Air Act Section 602 Class I : Not listed	Clean Air Act Section 602 Class II Substances	:	Not listed
Hazardous Air Pollutants (HAPs)         Clean Air Act Section 602 Class I       : Not listed         Substances         Clean Air Act Section 602 Class II       : Not listed	DEA List I Chemicals (Precursor Chemicals)	:	Not 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	DEA List II Chemicals (Essential Chemicals)	:	Not listed

#### 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
		14/17



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Titanium dioxide	>= 0.3 - <= 1	CARCINOGENICITY - Category 2
Carbon black	>= 3 - <= 5	CARCINOGENICITY - Category 2
Diundecyl phthalate	>= 5 - <= 10	EYE IRRITATION - Category 2B
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich	>= 5 - <= 10	EYE IRRITATION - Category 2B

#### SARA 313

	Product name	CAS number	%
Form R - Reporting	Rutile, antimony chromium	68186-90-3	10 - 25
requirements	buff		
Supplier notification	Rutile, antimony chromium	68186-90-3	10 - 25
	buff		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

<u>State regulations</u> Massachusetts New York New Jersey	:	None of the components are listed. None of the components are listed. The following components are listed: Titanium dioxide Carbon black Iron oxide
Pennsylvania	:	Rutile, antimony chromium buff Calcium carbonate Ethene, chloro-, homopolymer The following components are listed: Calcium carbonate
		Rutile, antimony chromium buff Iron oxide
		Carbon black Titanium dioxide

#### California Prop. 65



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**WARNING:** This product can expose you to chemicals including Titanium dioxide, Carbon black, 1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters, C9-rich, which are 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.
Carbon black	No.	No.
1,2-Benzenedicarboxylic acid, di-C8-10-	No.	No.
branched alkyl esters, C9-rich		

#### 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** 

**Inventory list** 

Australia Canada	:	All components are listed or exempted. At least one component is not listed in DSL but all such components are listed in NDSL.
China	:	Not determined.
Europe inventory	:	All components are listed or exempted.
Japan	:	Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.

## 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

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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 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

<u>Instory</u>		
Date of printing	:	04/26/2019
Date of issue/Date of revision	:	04/25/2019
Date of previous issue	:	11/19/2018
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

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