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PLA 3D JET GRAY #226

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SAFETY DATA SHEET

PLA 3D JET GRAY #226

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	PLA 3D JET GRAY #226 Mixture Mixture CC10331187 solid
<u>Relevant identified uses of the subs</u> Product use	tance :	e or mixture and uses advised against Industrial applications.
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 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		
Signal word	:	No signal word.
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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.
		Not available.

Section 3. Composition/information on ingredients

:

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10331187

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	5 - 10	13463-67-7
Carbon black	1 - 3	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

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the



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		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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 atte	ntio	n and special treatment needed, if necessary
Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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. Firefighting measures



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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 chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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 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 containm	ent a	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
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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) TWA 3.5 mg/m3 OSHA PEL (1993-06-30) TWA 3.5 mg/m3 NIOSH REL (1994-06-01)



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		TWA 3.5 mg/m3 NIOSH REL (1994-06-01) TWA 0.1 mgPAH/m ³ ACGIH TLV (2010-12-06) TWA 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 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 Body 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. Personal protective equipment for the body should be selected based on the task being performed and the risks implued and should be
Other skin protection	:	on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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
Respiratory protection	:	product. 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

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fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Developed state		solid [Pellets.]
Physical state Color	:	GREY
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point	:	Not available.
Boiling point		Not available.
Flash point		Not available.
Burning time		Not available.
Burning rate		Not available.
Evaporation rate	-	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	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		NT / 111
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available. Kinematic: Not available.
		Kinematic: Not available.
Aerosol product		
Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time	:	Not available.
equivalent		
Enclosed space ignition -	:	Not available.
Deflagration density		
Flame height	:	Not available.
Flame duration	:	Not available.



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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
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Remarks - Inhalation:	No applicable toxic	city data		
Remarks - Dermal:	No applicable toxic	city data		
Titanium dioxide				
Remarks - Oral:	No applicable toxic	city data		
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Conclusion/Summary	• Mixtu	re.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	-
Conclusion/Summary Skin Eyes	: M	ixture.Not full ixture.Not full	•	<u> </u>	<u> </u>



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Respiratory	:	Mixture.Not fully tested.
Sensitization		
Conclusion/Summary Skin Respiratory	:	Mixture.Not fully tested. Mixture.Not fully tested.
<u>Mutagenicity</u> Conclusion/Summary		Mixture.Not fully tested.
<u>Carcinogenicity</u>	•	wixture.rvot fully tested.
Conclusion/Summary	:	Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Carbon black	-	2B	-
Titanium dioxide	-	2B	-

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

exposure

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure) Not available.

 Specific target organ toxicity (repeated exposure)

 Not available.

 Aspiration hazard

 Not available.

 Information on likely routes of
 : Not available.

Potential acute health effects

Eye contact Inhalation	:	No known significant effects or critical hazards. No known significant effects or critical hazards.



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

Symptoms related to the physical, chemical 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 well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
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



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waterDaphniaRemarks - Acute - Aquatic invertebrates.:AcuteRemarks - Acute - Aquatic plants:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataImage: Titanium dioxideAcute LC50 > 1,000 Mg/l Marine waterFish - FishRemarks - Acute - Fish:Acute	48 h 96 h
Acute EC50 37.563 Mg/l Fresh water Aquatic invertebrates. Daphnia Remarks - Acute - Aquatic invertebrates.: Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 > 1,000 Mg/l Marine water Fish - Fish	
waterDaphniaRemarks - Acute - Aquatic invertebrates.:AcuteRemarks - Acute - Aquatic plants:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic - Fish:No applicable toxicity dataRemarks - Chronic -Acute LC50 > 1,000 Mg/l Marine waterFish - FishRemarks - Acute - Fish:Acute LC50 > 1,000 Mg/l Marine MarineFish - FishRemarks - Acute - Fish:AcuteAcute LC50 > 1,000 Mg/l Marine MarineFish - Fish	
Remarks - Acute - Aquatic invertebrates.: Acute Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute Acute Acute LC50 3 Mg/l Fresh water Aquatic invertebrates. Aquatic invertebrates.	96 h
invertebrates.: No applicable toxicity data Remarks - Acute - Aquatic No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine Remarks - Acute - Fish: Acute Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Remarks - Acute - Aquatic plants: No applicable toxicity data Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
plants: No Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Remarks - Chronic - Fish: No applicable toxicity data Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Remarks - Chronic - Aquatic invertebrates.: No applicable toxicity data Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Aquatic invertebrates.: If a part of the par	96 h
Titanium dioxide Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Acute LC50 > 1,000 Mg/l Marine water Fish - Fish Remarks - Acute - Fish: Acute Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
water Remarks - Acute - Fish: Acute Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	96 h
Remarks - Acute - Fish: Acute Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	
Acute LC50 3 Mg/l Fresh water Aquatic invertebrates.	
Crustaceans	48 h
Crustaceans	
Remarks - Acute - Aquatic Acute	
invertebrates.:	
Acute LC50 6.5 Mg/l Fresh water Aquatic invertebrates. Daphnia	48 h
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.:	
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Remarks - Acute - Aquatic Chemicals are not readily available as they are bound within the p	olymer matrix.
invertebrates.:	
Conclusion/Summary : Chemicals are not readily available as they are bound	1 within the
polymer matrix.	
Persistence and degradability	
Conclusion/Summary : Chemicals are not readily available as they are bound polymer matrix.	1 within the

Bioaccumulative potential



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Not available.

Mobility in soil

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

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

Section 15. Regulatory information

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United States - TSCA 12(b) - Chemical export notification: None **U.S. Federal regulations** : 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 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) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined 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 - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Chromium (III) oxide Rutile, antimony chromium buff United States - EPA Clean water act (CWA) section 311 -Hazardous substances: 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 - Toxic substances: Not listed United States - Department of commerce - Precursor chemical: Not listed Clean Air Act Section 112(b) Listed Hazardous Air Pollutants (HAPs) Not listed Clean Air Act Section 602 Class I : 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**)



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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
Titanium dioxide	>= 5 - <= 10	CARCINOGENICITY - Category 2
Carbon black	>= 1 - <= 3	CARCINOGENICITY - Category 2

<u>SARA 313</u>

Form R - Reporting requirements

Product name	CAS number	%
Chromium (III) oxide	1308-38-9	>= 1 - <= 3

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.

State regulations		
Massachusetts	:	None of the components are listed.
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Chromium (III) oxide Titanium dioxide Carbon black
Pennsylvania	:	The following components are listed: Titanium dioxide
		Chromium (III) oxide
		Carbon black
<u>California Prop. 65</u>		

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WARNING: This product can expose you to chemicals including Carbon black, Titanium dioxide, 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
Carbon black	-	-
Titanium dioxide	-	-

Canada inventory:All components are listed or exempted.International regulationsInventory listAustralia:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Turkey:All components are listed or exempted.Turkey:All components are listed or exempted.United States:All components are listed or exempted.	United States inventory (TSCA 8b)	:	All components are active or exempted.
Inventory listAustralia:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Canada inventory	:	All components are listed or exempted.
Australia:All components are listed or exempted.Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	International regulations		
Canada:All components are listed or exempted.China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Inventory list		
China:All components are listed or exempted.Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Australia	:	All components are listed or exempted.
Europe inventory:All components are listed or exempted.Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Canada	:	All components are listed or exempted.
Japan:All components are listed or exempted.New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	China	:	All components are listed or exempted.
New Zealand:All components are listed or exempted.Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Europe inventory	:	All components are listed or exempted.
Philippines:All components are listed or exempted.Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	Japan	:	All components are listed or exempted.
Republic of Korea:All components are listed or exempted.Taiwan:All components are listed or exempted.Turkey:Not determined.	New Zealand	:	All components are listed or exempted.
Taiwan:All components are listed or exempted.Turkey:Not determined.	Philippines	:	All components are listed or exempted.
Turkey : Not determined.	Republic of Korea	:	All components are listed or exempted.
- ur neg	Taiwan	:	All components are listed or exempted.
United States : All components are active or exempted.	Turkey	:	
	United States	:	All components are active or exempted.

Section 16. Other information

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



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 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

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HMIS® Personal Protective Equipm	ent (PPE) codes, consult the HMIS® Implementation Manual.
History		_
Date of printing	:	09/25/2020
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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 = International Air Transport Association IBC = 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.

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