### **GREEN PHA V2**

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# SAFETY DATA SHEET

### **GREEN PHA V2**

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	: : : : :	GREEN PHA V2 Mixture Mixture CC10343216 solid
<u>Relevant identified uses of the subs</u> Product use	tance :	e or mixture and uses advised against Industrial applications.
Supplier's details	:	AVIENT CORPORATION 33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
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.

valuat produ	this material is not considered hazardous by the OSHA Hazard unication Standard (29 CFR 1910.1200), this SDS contains le information critical to the safe handling and proper use of the t. This SDS should be retained and available for employees and users of this product.
Classification of the substance or : Not cl mixture	assified.
GHS label elements	
Signal word : No sig	nal word.
Hazard statements : No kn	own significant effects or critical hazards.

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#### **Precautionary statements**

	:	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	:	CC10343216

#### CAS number/other identifiers

Ingredient name	%	CAS number
Carbon black	> 0 - <= 0.3	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 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	
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Ingestion :	clothing and shoes. Get medical attention if symptoms occur. 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	e and delayed	
Potential acute health effects		
Eye 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/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	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. Fire-fighting 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	:	Decomposition products may include the following materials:

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decomposition products		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	:	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.
For emergency responders	:	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 containment	nt 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 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** 

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

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Advice on general occupational hygiene	:	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	
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)	
	TWA 3.5 mg/m3	
	NIOSH REL (1994-06-01)	
	TWA 0.1 mgPAH/m <sup>3</sup>	
	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	:	Wash hands, forearms and face thoroughly after handling chemical

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Eye/face protection	:	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 if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	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**

Physical state	:	solid [Pellets.]
Color		GREEN
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.

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Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	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.
<u>Aerosol product</u>		<b>Kinematic:</b> Not available.
	:	<b>Kinematic:</b> Not available. Not available.
<u>Aerosol product</u>	:	
<u>Aerosol product</u> Heat of combustion Ignition distance Enclosed space ignition - Time		Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent	:	Not available. Not available. Not available.
<u>Aerosol product</u> Heat of combustion Ignition distance Enclosed space ignition - Time equivalent Enclosed space ignition -	:	Not available. Not available.
Aerosol product Heat of combustion Ignition distance Enclosed space ignition - Time equivalent	:	Not available. Not available. 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.

Not available.

:

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity

Flame duration

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Product/ingredient name	Result	Species		Dose	Exposure
Carbon black					
	LD50 Oral	Rat		15,400 mg/kg	-
				-, 6.6	
<b>Conclusion/Summary</b>	: Mixtu	re.Not fully te	ested.		
Irritation/Corrosion					
Conclusion/Summary					
Skin	: Mixtu	are.Not fully t	ested.		
Eyes		re.Not fully t			
Respiratory		ire.Not fully t			
		-			
<b>Sensitization</b>					
Conclusion/Summary Skin	. Miytu	re.Not fully t	astad		
Respiratory		re.Not fully t			
Respiratory	• MIXU	inc.i.vot fully t	csicu.		
<b>Mutagenicity</b>					
<u>A</u>					
<b>Conclusion/Summary</b>	: Mixtu	are.Not fully t	ested.		
<u>Carcinogenicity</u>					
Conclusion/Summary	: Mixtu	are.Not fully t	astad		
Conclusion/Summary	• WIXU	inc.ivot fully t	csicu.		
<b>Classification</b>					
Product/ingredient name		ARC	NTP		
Carbon black	- 21	В	-		
<b><u>Reproductive toxicity</u></b>					
Conclusion/Summary	: Mixtu	re.Not fully t	ested.		
j		j			
<b>Teratogenicity</b>					
			_		
Conclusion/Summary	: Mixtu	re.Not fully t	ested.		
Specific target organ toxicity Not available.	(single exposure)				
Specific target organ toxicity Not available.	(repeated exposur	<u>e)</u>			
Aspiration hazard					

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Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	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.
Symptoms related to the physical, ch	iemi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and a	also o	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 Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects Numerical measures of toxicity	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards.
TAILET ICAL INCASULES OF TOXICITY		

Acute toxicity estimates

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Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
GREEN PHA V2	15,400 mg/kg	N/A	N/A	N/A	N/A
Carbon black	15,400 mg/kg	N/A	N/A	N/A	N/A

#### **Other 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.

# Section 12. Ecological information

:

#### **Toxicity**

	·	Exposure
Acute EC50 37.563 Mg/l Fresh	Daphnia - Daphnia magna	48 h
water		
Chemicals are not readily availabl	e as they are bound within the po	olymer matrix.
		•
: Chemicals are not read polymer matrix.	ily available as they are bound w	ithin the
: Chemicals are not read polymer matrix.	lily available as they are bound v	vithin the
: Chemicals are not read polymer matrix.	lily available as they are bound v	vithin the
	water         Chemicals are not readily available         :       Chemicals are not read polymer matrix.         :       Chemicals are not read polymer matrix.         :       Chemicals are not read polymer matrix.         :       Chemicals are not read polymer matrix.	water       Image: Chemicals are not readily available as they are bound within the polymer matrix.         :       Chemicals are not readily available as they are bound within the polymer matrix.         :       Chemicals are not readily available as they are bound within the polymer matrix.         :       Chemicals are not readily available as they are bound within the polymer matrix.         :       Chemicals are not readily available as they are bound within the polymer matrix.         :       Chemicals are not readily available as they are bound within the polymer matrix.

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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 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

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: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: Not listed</li> </ul>
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<b>United States - TSCA 4(f) - Priority risk review:</b> Not listed <b>United States - TSCA 5(a)2 - Final significant new use rules:</b> 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 Phthalocyanine green
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)	:	Not listed
Hazardous Air Pollutants (HAPs)		
Clean Air Act Section 602 Class I	:	Not listed
Substances		
	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
(	:	Not listed
Chemicals)		

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

not applicable

#### SARA 311/312

Classification

Not applicable.

:

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

No products were found.

Name	%	Classification
Carbon black	> 0 - <= 0.3	CARCINOGENICITY - Category 2

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: Calcium carbonate Phthalocyanine green Carbon black Ouartz
Pennsylvania	:	The following components are listed: Calcium carbonate
		Phthalocyanine green
		Carbon black
		Quartz

#### California Prop. 65

**WARNING:** This product can expose you to chemicals including Carbon black, 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	-	-
Quartz	-	-

United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	At least one component is not listed in DSL but all such components

are listed in NDSL.

#### **International regulations**

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#### **Inventory list**

Australia	:	Not determined.
Canada	:	At least one component is not listed in DSL but all such components
		are listed in NDSL.
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	:	All components are active or exempted.

# Section 16. Other information

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

0	/
0	
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 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. <u>History</u>

Date of printing	:	06/22/2021
Date of issue/Date of revision	:	06/21/2021
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

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pollution) UN = United Nations Not available.

References

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.