

Version Number 1.4 Revision Date 10/20/2023 Page 1 of 15 Print Date 10/21/2023

# SAFETY DATA SHEET

### **188.08 FEP PHF CC HIGH GREY**

Section 1. Identification	on	
GHS product identifier Chemical name CAS number Other means of identification Product type	::	188.08 FEP PHF CC HIGH GREY Mixture Mixture CC01059152 solid
<u>Relevant identified uses of the subs</u> Product use	tance :	or mixture and uses advised against Industrial applications. Plastics.
Supplier's details	:	<b>Colorant Chromatics</b> Chromatics, Inc. 19 Francis J. Clarke Circle, Bethel, CT 06801, USA
		+1 800 242 2296
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. Fluoropolymers heated above 350 C can evolve hydrogen fluoride and carbonyl fluoride as degradation products. Processing at elevated temperatures may release fumes that can cause polymer fume fever. 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.



Version Number 1.4 Revision Date 10/20/2023 Page 2 of 15 Print Date 10/21/2023

<b>GHS label elements</b>		
Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.
D		
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	:	CC01059152

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	>= 1 - <= 3	13463-67-7
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



Version Number 1.4	Page 3 of 15
Revision Date 10/20/2023	Print Date 10/21/2023

		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. 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)

## **Section 5. Fire-fighting measures**

### Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Unsuitable extinguishing media	:	None known.



Version Number 1.4 Revision Date 10/20/2023 Page 4 of 15 Print Date 10/21/2023

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 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	nt ar	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



Version Number 1.4 Revision Date 10/20/2023 Page 5 of 15 Print Date 10/21/2023

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 (2022-01-06) TWA 0.2 mg/m3 Form: respirable fraction, nanoscale particles TWA 2.5 mg/m3 Form: respirable fraction, finescale particles
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



Version Number 1.4 Revision Date 10/20/2023

### Page 6 of 15 Print Date 10/21/2023

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 involved and should be
Other skin protection	:	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 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**



Version Number 1.4 Revision Date 10/20/2023 Page 7 of 15 Print Date 10/21/2023

Physical state       : solid [Pellets.]         Color       : GREY         Odor       : Not available.         Odor threshold       : Not available.         pH       : Not available.         Boiling point       : Not available.         Boiling point       : Not available.         Burning time       : Not available.         Burning time       : Not available.         Burning rate       : Not available.         Evaporation rate       : Not available.         Flash point       : Not available.         Burning rate       : Not available.         Evaporation rate       : Not available.         (flammability (solid, gas)       : Not available.         Lower and upper explosive       : Lower: Not applicable.         (flammable) limits       Upper: Not applicable.         Vapor density       : Not available.         Solubility       : Not available.         Solubility in water       : Not available.         Partition coefficient: n-       : Not available.         octanol/water       : Not available.         Auto-ignition temperature       : Not available.         SADT       : Dynamic: Not available.         Viscosity       : Dynamic: Not available.			
Odor:Not available.Odor threshold:Not available.pH:Not available.Beiling 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 applicable.(flammable) limits:Upper: Not applicable.Vapor pressure:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Mettod composition temperature:Not available.Auto-ignition distance:Not available.Ignition distance:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Ignition distance:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame height:Not available.			
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 applicable.(flammable) limits:Upper: Not applicable.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Not available.Ignition distance::enclosed space ignition - Time equivalent:Not available.Enclosed space ignition - Flame height:Not available.Flame height::Not available.Ignition distance::Ignition distance::Not available.:Soluseity:Ignition density:Flame height:			-
pH       :       Not available.         Melting point       :       Not available.         Boiling point       :       Not available.         Flash 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 applicable.         (flammable) limits       :       Not available.         Vapor pressure       :       Not available.         Yapor density       :       Not available.         Solubility       :       Not available.         Solubility in water       :       Not available.         Partition coefficient: n-       :       Not applicable.         octanol/water       :       Not available.         Auto-ignition temperature       :       Not available.         SADT       :       Not available.         Viscosity       :       Dynamic: Not available.         Met of combustion       :       Not available. <th>0 401</th> <th></th> <th></th>	0 401		
Melting point:Not available.Boiling point:Not available.Flash point:Not available.Burning rate:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not applicable.(flammable) limits:Upper: Not applicable.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not available.SADT:Not available.Viscosity::Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Enclosed space ignition - Time:No			
Boiling point:Not available.Flash point:Not applicable.Burning time:Not available.Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not applicable.(flammable) limits:Not available.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Percomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Enclosed space ignition - Time:Not availa			
Flash point:Not applicable.Burning time Burning rate Evaporation rate (flammability (solid, gas) Lower and upper explosive (flammable) limits:Not available. Not available.Flammability (solid, gas) Lower and upper explosive (flammable) limits:Not available. Upper: Not applicable.Vapor pressure Vapor density:Not available.Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature:Not available.Decomposition temperature SADT Viscosity:Not available. Not available.:Met of combustion equivalent Enclosed space ignition - Time equivalent Enclosed space ignition - Enclosed space ignition - ignition density Flame height Flame height Flame height:Not available. Not available.Ignition density Flame height Flame duration:Not available. Not available.			
Burning time Burning rate:Not available.Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits:Not available.Lower and upper explosive (flammable) limits:Not available.Vapor pressure Vapor density:Not available.Relative density Solubility ity in water Partition coefficient: n- octanol/water Auto-ignition temperature:Not available.Decomposition temperature SADT Viscosity:Not available.Not available.Kerosol product:Not available.Not available.Heat of combustion equivalent Enclosed space ignition - Time equivalent Enclosed space ignition - Deflagration density Flame height Flame height Flame duration:Not available.Not available. Solubility:Not available.:Not available. Solubility:Not available.:Subject Solubility:Not available.:Partition coefficient: n- octanol/water Auto-ignition temperature:Not available.Decomposition temperature SADT:Not available.Viscosity::Dynamic: Not available.Kinematic: Not available. Solubility:Not available.Ignition distance Enclosed space ignition - Subject:Not available.Solubale. Solubility:Not available.Solubility Solubility:Not available.Solubility Solubility:Not available.Solubilit			
Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not applicable.(flammable) limits:Lower: Not applicable.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Ignition distance:Enclosed space ignition - Deflagration density:Flame height:Flame height:Flame height:Flame duration:	Flash point	:	Not applicable.
Burning rate:Not available.Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not applicable.(flammable) limits:Lower: Not applicable.Vapor pressure:Not available.Vapor density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Ignition distance:Enclosed space ignition - Deflagration density:Flame height:Flame height:Flame height:Flame duration:	Burning time		Not available
Evaporation rate:Not available.Flammability (solid, gas):Not available.Lower and upper explosive:Lower: Not applicable.(flammable) limits:Not available.Vapor pressure:Not available.Vapor density:Not available.Relative density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not available.Auto-ignition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Ignition distance:Enclosed space ignition - Deflagration density:Flame height:Flame height:Flame duration:			
Flammability (solid, gas)       :       Not available.         Lower and upper explosive (flammable) limits       :       Not available.         Vapor pressure Vapor density       :       Not available.         Vapor density       :       Not available.         Solubility       :       Not available.         Solubility in water Partition coefficient: n- octanol/water       :       Not available.         Auto-ignition temperature SADT       :       Not available.         Viscosity       :       Not available.         Viscosity       :       Not available.         Aerosol product       :       Not available.         Heat of combustion       :       Not available.         Ignition distance equivalent Enclosed space ignition - Time equivalent       :       Not available.         Enclosed space ignition - Deflagration density       :       Not available.         Flame height       :       Not available.		:	
Lower and upper explosive (flammable) limits:Lower: Not applicable.Vapor pressure Vapor density:Not available. Not applicable.Relative density Solubility:Not available. Not available.Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature:Not available. Not applicable.Decomposition temperature SADT Viscosity:Not available. Not available. Not available.Aerosol product Heat of combustion equivalent Enclosed space ignition - Time equivalent Enclosed space ignition - Deflagration density Flame height Flame duration:Not available. Not available. Not available. Not available. Not available. Not available. 		:	
(flammable) limitsUpper: Not applicable.Vapor pressure Vapor density:Not available. Not applicable.Relative density Solubility:Not available. Not available.Solubility Solubility in water Partition coefficient: n- octanol/water Auto-ignition temperature:Not available. Not available.Decomposition temperature SADT Viscosity:Not available. Not available.Decomposition temperature SADT Viscosity:Not available. Not available.Lignition distance equivalent Enclosed space ignition - Deflagration density Flame height Flame height:Not available. Not available. InterventionNot available Not available Sapace ignition - Deflagration density Flame height:Not available. Not available. Sapace ignition - Not available.			
Vapor density:Not applicable.Relative density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Not available.Ignition distance:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.		•	
Vapor density:Not applicable.Relative density:Not available.Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Aerosol product:Heat of combustion:Not available.Ignition distance:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.	Vapor pressure	:	Not available.
Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not available.:Not available.Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Image: Not available.:Not available.			
Solubility:Not available.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not available.:Not available.Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Image: Not available.:Not available.	Relative density	:	Not available.
Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Meat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Deflagration density:Not available.Flame height:Not available.	•	:	Not available.
Partition coefficient: n- octanol/water Auto-ignition temperature:Not applicable.Decomposition temperature SADT Viscosity:Not available.Decomposition temperature SADT Viscosity:Not available.Decomposition temperature SADT Viscosity:Not available.Decomposition temperature SADT Viscosity:Not available.Decomposition temperature SADT Viscosity:Not available.Meat of combustion Ignition distance equivalent Enclosed space ignition - Time equivalent Enclosed space ignition - Time equivalent Enclosed space ignition -:Not available.Deflagration density Flame height Flame duration:Not available.:		:	Not available.
Auto-ignition temperature:Not applicable.Decomposition temperature:Not available.SADT:Not available.Viscosity:Dynamic: Not available.Kinematic: Not applicable.:Not available.Aerosol product:Not available.Heat of combustion:Not available.Ignition distance:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.	Partition coefficient: n-	:	Not applicable.
SADT:Not available.Viscosity:Dynamic: Not available.Meat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Deflagration density:Not available.Flame height:Not available.Image: Not available = 0.0000000000000000000000000000000000		:	Not applicable.
SADT:Not available.Viscosity:Dynamic: Not available.Meat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition - Time:Not available.Deflagration density:Not available.Flame height:Not available.Image: Not available = 0.0000000000000000000000000000000000			
Viscosity:Dynamic: Not available. Kinematic: Not applicable.Aerosol product.Heat of combustion:Ignition distance:Enclosed space ignition - Time:equivalent:Enclosed space ignition - Time:Deflagration density:Flame height:Not available.:Not available.		:	
Aerosol product       Kinematic: Not applicable.         Heat of combustion       :       Not available.         Ignition distance       :       Not available.         Enclosed space ignition - Time       :       Not available.         equivalent       :       Not available.         Deflagration density       :       Not available.         Flame height       :       Not available.		:	
Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.	Viscosity	:	
Heat of combustion:Not available.Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.	Aerosol product		
Ignition distance:Not available.Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.			
Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.	Heat of combustion	:	Not available.
Enclosed space ignition - Time:Not available.equivalent:Not available.Enclosed space ignition -:Not available.Deflagration density:Not available.Flame height:Not available.Flame duration:Not available.	Ignition distance	:	Not available.
Enclosed space ignition - Deflagration density:Not available.Flame height Flame duration:Not available.		:	Not available.
Deflagration densityFlame height: Not available.Flame duration: Not available.			
Flame height: Not available.Flame duration: Not available.		:	Not available.
Flame duration : Not available.			
		:	
7/15	Flame duration	:	Not available.
			7/15



Version Number 1.4 Revision Date 10/20/2023

### Page 8 of 15 Print Date 10/21/2023

## 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

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium oxide (TiO2)				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	Dusts and mists			
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Carbon black				
	LD50 Oral	Rat	15,400 mg/kg	-
Conclusion/Summary <u>Irritation/Corrosion</u>	: Mixtur	e.Not fully tested.		
Irritation/Corrosion	: Mixtur	e.Not fully tested.		
Irritation/Corrosion Conclusion/Summary				
Irritation/Corrosion	: Mixtu	e.Not fully tested. re.Not fully tested. re.Not fully tested.		

Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.

### **Mutagenicity**



Version Number 1.4 Revision Date 10/20/2023 Page 9 of 15 Print Date 10/21/2023

Conclusion/Summary	:	Mixture.Not fully tested.
--------------------	---	---------------------------

#### **Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Titanium oxide (TiO2)	-	2B	-
Carbon black	-	2B	-

#### **Reproductive toxicity**

Conclusion/Summary	:	Mixture.Not fully tested.
--------------------	---	---------------------------

#### **Teratogenicity**

**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 the likely routes of : Not available. exposure

**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, chemical and toxicological characteristics

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



Version Number 1.4 Revision Date 10/20/2023 Page 10 of 15 Print Date 10/21/2023

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure **Potential immediate effects** Not available. : **Potential delayed effects** : Not available. Long term exposure **Potential immediate effects** Not available. : Not available. **Potential delayed effects** : 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. : No known significant effects or critical hazards. Mutagenicity : Teratogenicity No known significant effects or critical hazards. : **Developmental effects** No known significant effects or critical hazards. : No known significant effects or critical hazards. No known significant **Fertility effects** : effects or critical hazards. Numerical measures of toxicity Acute toxicity estimates N/A This mixture has not been evaluated as a whole for health effects. **Other information** : Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure	
Titanium oxide (TiO2)				
	Acute LC50 > 1,000 Mg/l	Fish - Fundulus heteroclitus	96 h	
	Marine water			



Version Number 1.4 Revision Date 10/20/2023 Page 11 of 15 Print Date 10/21/2023

	Acute LC50 3 Mg/l Fresh water	Crustaceans - Ceriodaphnia 48 h		
	Aguta LC50 6 5 Mg/l Erach	dubia Daphnia - Daphnia pulex	48 h	
	Acute LC50 6.5 Mg/l Fresh water	Daphina - Daphina pulex	40 11	
Carbon black	water			
	Acute EC50 37.563 Mg/l Fresh	Daphnia - Daphnia magna	48 h	
	water			
188.08 FEP PHF CC HIGH GR	EY			
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily availab	le as they are bound within the po	lymer matrix.	
Conclusion/Summary	: Chemicals are not read polymer matrix.			
Persistence and degradability				
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.			
Conclusion/Summary	: Chemicals are not readily available as they are bound within the polymer matrix.		ithin the	
<b><u>Bioaccumulative potential</u></b> Not available.				
Mobility in soil				
Soil/water partition coefficie (KOC)	ent : Not available.			
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



Version Number 1.4 Revision Date 10/20/2023 Page 12 of 15 Print Date 10/21/2023

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	: United States - TSCA 12(b) - Chemical export notification: None
-	of the components are listed.
	United States - TSCA 4(a) - Final Test Rules: Not listed
	United States - TSCA 4(a) - ITC Priority list: Not listed
	United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	United States - TSCA 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):
	12/15



Version Number 1.4	Page 13 of 15
Revision Date 10/20/2023	Print Date 10/21/2023

Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed 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 Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor		Not listed
Chemicals)	•	
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
Titanium oxide (TiO2)	>= 1 - <= 3	CARCINOGENICITY - Category 2
Carbon black	> 0 - <= 0.3	CARCINOGENICITY - Category 2

Not applicable.

#### State regulations



Version Number 1.4 Revision Date 10/20/2023 Page 14 of 15 Print Date 10/21/2023

Massachusetts	:	The following components are listed: Titanium dioxide
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: Titanium dioxide
		Carbon black
Pennsylvania	:	The following components are listed: Titanium dioxide

### California Prop. 65

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

United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	All components are listed or exempted.
<u>International regulations</u> <u>Inventory list</u>		
Australia	:	All components are listed or exempted.
Canada	:	All components are listed or exempted.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): All components are listed or exempted.
		Japan inventory (ISHL): Not determined.
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. All components are listed or exempted.
Thailand	:	All components are listed or exempted.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

### **Section 16. Other information**

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



Version Number 1.4 Revision Date 10/20/2023 Page 15 of 15 Print Date 10/21/2023

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark 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>Illstol y</u>		
Date of printing	:	10/21/2023
Date of issue/Date of revision	:	10/20/2023
Date of previous issue	:	02/18/2022
Version	:	1.4
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)
		$\hat{U}N = United Nations$
References	:	Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.