SAFETY DATA SHEET



Date of issue/Date of revision 1 October 2021 Version 22

Section 1. Identification		
Product name	: EMERALD GREEN	
Product code	: 4010142	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: (740) 363-9610 (DELAWARE, OH) 8:00 a.m 5:00 p.m. EST	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	✓ Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 57.4% (oral), 72.8% (dermal), 91.3% (inhalation)

Product name EMERALD GREEN

Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

	engineering controls (see Section 8).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
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Product name EMERALD GREEN

Section 2. Hazards identification

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

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Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name

: EMERALD GREEN

Ingredient name	%	CAS number
Naphtha (petroleum), hydrotreated heavy	≥10 - ≤17	64742-48-9
Stoddard solvent	≥10 - ≤20	8052-41-3
Distillates (petroleum), hydrotreated light	≥5.0 - ≤10	64742-47-8
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
Solvent naphtha (petroleum), medium aliph.	≥1.0 - ≤5.0	64742-88-7
antimony nickel titanium oxide yellow	≥1.0 - ≤5.0	8007-18-9
xylene	≤1.4	1330-20-7
Solvent naphtha (petroleum), light aromatic	≤1.3	64742-95-6
calcium bis(2-ethylhexanoate)	<1.0	136-51-6
2-ethylhexanoic acid, zirconium salt	≤1.0	22464-99-9
cobalt bis(2-ethylhexanoate)	<1.0	136-52-7
ethylbenzene	<1.0	100-41-4
carbon black	≤1.0	1333-86-4
2-butanone oxime	<1.0	96-29-7

SUB codes represent substances without registered CAS Numbers.

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Product name EMERALD GREEN

Section 4. First a	id measures
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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

: 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
: 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).	
ntainment and cleaning up	
: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

Product name EMERALD GREEN

Section 7. Handling and storage

Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	Ingestion of product or cured coating may be harmful. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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	Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Aphtha (petroleum), hydrotreated heavy	None.
Stoddard solvent	ACGIH TLV (United States, 3/2020).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 2900 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
Distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 3/2020).
	Absorbed through skin.
	TWA: 200 mg/m³, (as total hydrocarbon
	vapor) 8 hours.
tanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2020).
	TWA: 10 mg/m ³ 8 hours.
olvent naphtha (petroleum), medium aliph.	ACGIH TLV (United States).
	TWA: 400 ppm
	OSHA PEL (United States, 5/2018).
	TWA: 100 ppm 8 hours.
	TWA: 400 mg/m ³ 8 hours.
ntimony nickel titanium oxide yellow	OSHA PEL (United States).
	TWA: 0.5 mg/m ³ , (as Sb)
	TWA: 0.5 mg/m ³ , (as Sb) Form: Total dust
	ACGIH TLV (United States, 3/2020).
	TWA: 0.2 mg/m³, (as Ni) 8 hours. Form:
	Inhalable fraction
	ACGIH TLV (United States).
	TWA: 0.2 mg/m ³ Form: Total dust
	OSHA PEL (United States, 5/2018).
	TWA: 1 mg/m³, (as Ni) 8 hours.
ylene	ACGIH TLV (United States, 3/2020).
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
alcium bis(2-ethylhexanoate)	None.
-ethylhexanoic acid, zirconium salt	ACGIH TLV (United States, 3/2020).
. ,	STEL: 10 mg/m ³ , (as Zr) 15 minutes.
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ , (as Zr) 8 hours.
obalt bis(2-ethylhexanoate)	ACGIH TLV (United States, 3/2020). Skin
	sensitizer. Inhalation sensitizer.
thulhanzona	TWA: 0.02 mg/m^3 , (as Co) 8 hours.
thylbenzene	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.

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Section 8. Exposure controls/personal protection

	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
carbon black	ACGIH TLV (United States, 3/2020).
	TWA: 3 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 3.5 mg/m ³ 8 hours.
2-butanone oxime	IPEL (-).
	TWA: 3 ppm
	STEL: 9 ppm
Key to abbreviations	

= Acceptable Maximum Peak А S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization = Ceiling Limit SS = Skin sensitization С F = Fume STEL = Short term Exposure limit values IPEL = Internal Permissible Exposure Limit TD = Total dust OSHA = Occupational Safety and Health Administration. TLV = Threshold Limit Value = Respirable = Time Weighted Average R TWA

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	-	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	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 measur	<u>es</u>	
Hygiene measures	:	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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	1	Chemical splash goggles.
Skin protection		

Product name EMERALD GREEN

Section 8. Exposure controls/personal 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
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. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Appearance

Appearance	
Physical state	: Liquid.
Color	: Green.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 38°C (100.4°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.01
Density(lbs / gal)	: 8.43
Solubility Partition coefficient: n- octanol/water	Partially soluble in the following materials: cold water.Not applicable.

Product name EMERALD GREEN

Section 9. Physical and chemical properties

Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VISCOSILY	• Rinemano (40.0 (104.1)). 21.101173 (21.001)

Volatility : 50% (v/v), 39.006% (w/w)

% Solid. (w/w)

: 60.994

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum),	LD50 Dermal	Rabbit	>5000 mg/kg	-
hydrotreated heavy				
	LD50 Oral	Rat	>6 g/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	>3000 mg/kg	-
medium aliph.				
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	3129 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
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Section 11. Toxicological information

carbon black 2-butanone oxime	LD50 Dermal LD50 Oral LD50 Oral LD50 Oral			Rabbit Rat Rat Rat		17.8 g/kg 3.5 g/kg >10 g/kg 930 mg/kg	- - -	
Conclusion/Summary	There are	e no data av	vailable on th	e mixture	e itself.			
Irritation/Corrosion								
Product/ingredient name	Result		Spec	ies	Score	Exposu	re	Observation
xylene	Skin - Moderate irritant		nt Rabb	it	-	24 hours mg	s 500	-
Conclusion/Summary						·		
Skin	There are	e no data a	vailable on th	e mixture	e itself.			
Eyes	: There are	e no data av	vailable on th	e mixture	e itself.			
Respiratory	: There are	e no data av	vailable on th	e mixture	e itself.			
Sensitization								
Conclusion/Summary								
Skin	: There are no data available on the mixture itself.							
Respiratory	: There are no data available on the mixture itself.							
<u>Mutagenicity</u>								
Conclusion/Summary	: There are no data available on the mixture itself.							
Carcinogenicity								
	: There are no data available on the mixture itself.							
<u>Classification</u>								
Product/ingredient name	OSHA	IARC	NTP					
titanium dioxide	-	2B	-					
xylene	-	3	-					
cobalt bis(2-ethylhexanoate)	-	2B	Reasonably	anticipat	ed to be	a human carc	inoger	1.
ethylbenzene carbon black	-	2B 2B	-					

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself. Specific target organ toxicity (single exposure)

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Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated heavy	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), medium aliph.	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Stoddard solvent	Category 1	-	central nervous system (CNS)
Solvent naphtha (petroleum), medium aliph.	Category 1	-	central nervous system (CNS)
ethylbenzene	Category 2	-	hearing organs

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Target organs
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: Contains material which causes damage to the following organs: brain, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, upper respiratory tract, eye, lens or cornea, testes.

Aspiration hazard

Name	Result
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Category 1
Stoddard solvent	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), medium aliph.	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

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Section 11. Toxicological information

Inhalation	: Adverse symptoms may include the following: reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness dryness
	cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
Delayed and immediate offer	skeletal malformations <u>cts and also chronic effects from short and long term exposure</u>
Conclusion/Summary	: There are no data available on the mixture itself. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects

Product name EMERALD GREEN

Section 11. Toxicological information

General	: Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
EMERALD GREEN	142540.6	12911.9	N/A	74.7	10.2
Solvent naphtha (petroleum), medium aliph.	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
cobalt bis(2-ethylhexanoate)	3129	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
2-butanone oxime	930	1100	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Itanium dioxide Solvent naphtha (petroleum), light aromatic	Acute LC50 >100 mg/l Fresh water Acute LC50 8.2 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours
2-ethylhexanoic acid, zirconium salt	Acute LC50 >100 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life	1	Photolysis		Biodeg	radability
Distillates (petroleum), hydrotreated light	-		-		Readily	
xylene ethylbenzene	-		- -		Readily Readily	

Bioaccumulative potential

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Product name EMERALD GREEN

Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Stoddard solvent	3.16 to 7.06	-	high
Distillates (petroleum),	-	159	low
hydrotreated light			
xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
2-butanone oxime	0.63	5.01	low

Mobility in soil

Soil/water	partition
coefficient	(Koc)

: Not available.

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. Care should be taken when handling emptied containers that have not been
	cleaned or rinsed out. Empty containers or liners may retain some product residues.
	Vapor from product residues may create a highly flammable or explosive atmosphere
	inside the container. Do not cut, weld or grind used containers unless they have been
	cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact
	with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	Ш		111
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	7779.6	Not applicable.	Not applicable.

Product name EMERALD GREEN

14. Transport information

RQ substances (xylene)	Not applicable.	Not applicable.
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Additional information

DOT	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.
IMDG	: None identified.
ΙΑΤΑ	: None identified.
Special prec	autions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : All components are active or exempted.

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1B
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
Naphtha (petroleum), hydrotreated heavy	≥10 - ≤17	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
Stoddard solvent	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
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Product name EMERALD GREEN

Section 15. Regulatory information

	2		
Distillates (petroleum),	≥5.0 - ≤10	ASPIRATION HAZARD - Category 1	
hydrotreated light			
titanium dioxide	≥1.0 - ≤5.0	CARCINOGENICITY - Category 2	
Solvent naphtha (petroleum),	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3	
medium aliph.		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Narcotic effects) - Category 3	
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 1	
		ASPIRATION HAZARD - Category 1	
		HNOC - Defatting irritant	
antimony nickel titanium oxide	≥1.0 - ≤5.0	EYE IRRITATION - Category 2A	
yellow			
xylene	≤1.4	FLAMMABLE LIQUIDS - Category 3	
		ACUTE TOXICITY (dermal) - Category 4	
		ACUTE TOXICITY (inhalation) - Category 4	
		SKIN IRRITATION - Category 2	
		EYE IRRITATION - Category 2A	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Respiratory tract irritation) - Category 3	
		ASPIRATION HAZARD - Category 1	
Solvent naphtha (petroleum),	≤1.3	FLAMMABLE LIQUIDS - Category 3	
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Respiratory tract irritation) - Category 3	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
		(Narcotic effects) - Category 3	
		ASPIRATION HAZARD - Category 1	
		HNOC - Defatting irritant	
calcium bis(2-ethylhexanoate)	<1.0	SERIOUS EYE DAMAGE - Category 1	
	\$1.0	TOXIC TO REPRODUCTION - Category 2	
2-ethylhexanoic acid, zirconium	≤1.0	COMBUSTIBLE DUSTS	
salt	-1.0	TOXIC TO REPRODUCTION - Category 2	
cobalt bis(2-ethylhexanoate)	<1.0	EYE IRRITATION - Category 2A	
	<1.0	SKIN SENSITIZATION - Category 1A	
		CARCINOGENICITY - Category 1B	
		TOXIC TO REPRODUCTION - Category 1B	
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2	
ethylbenzene	<1.0	ACUTE TOXICITY (inhalation) - Category 4	
		CARCINOGENICITY - Category 2	
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 2	
		ASPIRATION HAZARD - Category 1	
carbon black	≤1.0	HNOC - Defatting irritant COMBUSTIBLE DUSTS	
	≥1.0		
2 hutanana avint -	-1.0	CARCINOGENICITY - Category 2	
2-butanone oxime	<1.0	FLAMMABLE LIQUIDS - Category 4	
		ACUTE TOXICITY (oral) - Category 4	
		ACUTE TOXICITY (dermal) - Category 4	
		SERIOUS EYE DAMAGE - Category 1	
1			
		SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2	

<u>SARA 313</u>

Chemical name	<u>CAS number</u>	Concentration
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Product name EMERALD GREEN

Section 15. Regulatory information

Supplier notification	: antimony nickel titanium oxide yellow	8007-18-9	1-5
	xylene	1330-20-7	0.5 - 1.5
	cobalt bis(2-ethylhexanoate)	136-52-7	0.1 - 1
	ethylbenzene	100-41-4	0.1 - 1

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.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 2 * Flammability : 2 Physical hazards : 0

(*) - Chronic effects

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 MSDSs 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.

National Fire Protection Association (U.S.A.)

Health : 2 Flamma Date of previous issue Organization that prepared the SDS	bility : 2 Instability : 0 : 6/1/2021 : EHS
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 = Internediate 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) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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