SAFETY DATA SHEET



Date of issue/Date of revision 5 June 2024 Version 9

Section 1. Identification		
Product name	: SIGMAFAST 278 PURE WHITE RAL 9010 750 X 250 CARTRIDGE- obs	
Product code	: 00435134	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (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	: 888-977-4762	

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 substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.7% (oral), 20.7% (dermal), 33.3% (inhalation)

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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 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).
<u>GHS label elements</u>	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs
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. Wear respiratory 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. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. 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. Immediately call a POISON CENTER or doctor.
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. Do not taste or swallow. 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.

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Section 2. Hazards identification

Hazards not otherwise classified

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

: Mixture

- Substance/mixture
- Product name
- : SIGMAFAST 278 PURE WHITE RAL 9010 750 X 250 CARTRIDGE- obs

Ingredient name	%	CAS number
titanium dioxide	≥10 - ≤20	13463-67-7
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥10 - ≤20	1675-54-3
xylene	≥10 - ≤13	1330-20-7
Limestone	≥5.0 - ≤10	1317-65-3
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6
4-nonylphenol, branched	≥1.0 - <5.0	84852-15-3
1-methoxy-2-propanol	≥1.0 - ≤5.0	107-98-2
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	≥1.0 - ≤3.2	68082-29-1
fatty acids and triethylenetetramine		
ethylbenzene	≥0.10 - ≤2.7	100-41-4
benzyl alcohol	≤1.9	100-51-6
2,4,6-tris(dimethylaminomethyl)phenol	≤1.7	90-72-2
Phenol, 2-nonyl-, branched	<1.0	91672-41-2
ethylenediamine	<1.0	107-15-3

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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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

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Section 4. First aid measures

Eye contact	: Causes serious eye damage.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate me	dical 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. 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)

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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. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides 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. 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

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 co	ont	ainment and cleaning up
Small spill	:	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.

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Section 6. Accidental release measures

: 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.

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 or asthma, allergies or chronic or recurrent respiratory disease 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	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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	: Store between the following temperatures: 0 to 35°C (32 to 95°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.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 7/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
bis-[4-(2,3-epoxipropoxi)phenyl]propane	None.
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 7/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Limestone	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m³
4-nonylphenol, branched	None.
1-methoxy-2-propanol	ACGIH TLV (United States, 7/2023).
	STEL: 369 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 184 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-	None.
oil fatty acids and triethylenetetramine	
ethylbenzene	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
benzyl alcohol	IPEL (-).
	TWA: 5 ppm
	STEL: 10 ppm
2,4,6-tris(dimethylaminomethyl)phenol	None.
Phenol, 2-nonyl-, branched ethylenediamine	None.
ะแหน่งเป็นเป็น	ACGIH TLV (United States, 7/2023).
	Absorbed through skin.
	TWA: 10 ppm 8 hours. OSHA PEL (United States, 5/2018).
	TWA: 25 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.

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Section 8. Exposure controls/personal protection

C = Ceiling Limit F = Fume IPEL = Internal Permissible Exp OSHA = Occupational Safety and R = Respirable Z = OSHA 29 CFR 1910.120	f Governmental Industrial Hygienists. SR = Respiratory sensitization SS = Skin sensitization SS = Skin sensitization osure Limit TD = Total dust I Health Administration. TLV = Threshold Limit Value TWA = Time Weighted Average 00 Subpart Z - Toxic and Hazardous Substances =
Consult local authorities for	acceptable exposure limits.
Recommended monitoring procedures	 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	ies
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	: Chemical splash goggles and face shield.
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. 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	: nitrile neoprene
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 anti-static 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.

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Section 8. Exposure controls/personal protection

Respiratory protection	: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

Appearance			
Physical state	:	Liquid.	
Color	:	White.	
Odor	:	Characteristic.	
Odor threshold	:	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 29°C (84.2°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	1	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.42	
Density(Ibs / gal)	:	11.85	
		Media	Result
Solubility(ies)	÷	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)
Volatility	:	28% (v/v), 17.836% (w/w)	
% Solid. (w/w)	:	82.164	

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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: 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 metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
bis-[4-(2,3-epoxipropoxi)	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyl]propane				
	LD50 Oral	Rat	15000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
Limestone	LD50 Oral	Rat	6450 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction	LD50 Dermal	Rat	>2000 mg/kg	-
products with tall-oil fatty acids and				
triethylenetetramine				
	LD50 Oral	Rat	>2000 mg/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2,4,6-tris	LD50 Dermal	Rat	1280 mg/kg	-
_ , ,, o all o			1200 mg/ng	
			United States	Page: 10/1

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Section 11. Toxicological information

LD50 Oral LD50 Dermal			Rat		1200	ma/ka	
			Rabbit		0.73 g		
LD50 Oral			Rat		0.5 g/	kg -	
: There are no data	a available	e on th	e mixture	e itself.			
				1			T
Result		Spec	ies	Score		Exposure	Observation
Eyes - Mild irritant		Rabb	it	-		24 hours	-
5	the	Rabb	it	0.4		24 hours	-
Skin - Edema		Rabb	it	0.5		4 hours	-
Skin - Erythema/E	schar	Rabb	it	0.8		4 hours	-
Skin - Mild irritant		Rabb	it	-		4 hours	-
Skin - Moderate irr	ritant	Rabb	it	-		24 hours 500 mg	-
Skin - Erythema/E	schar			4		-	-
Eyes - Severe irrita	ant	Rabb	it	-		-	-
Skin Irritant		Hum	n				
: There are no data	a available	e on th	e mixture	e itself.			
Route of exposure	Species				Resu	lt	
skin	Mouse				Sensi	tizing	
skin	Mouse				Sensi	tizing	
• There are no dat	a availahla	on th	e mixtur	a itself			
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. There are no data	a avaliable	e on tr		e itsell.			
: There are no data	a available	e on th	e mixture	e itself.			
	Eyes - Redness of conjunctivae Skin - Edema Skin - Erythema/E Skin - Mild irritant Skin - Moderate in Skin - Erythema/E Eyes - Severe irrita Skin - Irritant : There are no dat : There are no dat : There are no dat skin skin skin : There are no dat : There are no dat : There are no dat	Eyes - Mild irritant Eyes - Redness of the conjunctivae Skin - Edema Skin - Erythema/Eschar Skin - Mild irritant Skin - Mild irritant Skin - Mild irritant Skin - Erythema/Eschar Skin - Erythema/Eschar Eyes - Severe irritant Skin - Irritant Skin - Irritant : There are no data available : There are no data available : There are no data available skin Mouse skin Mouse skin Mouse : There are no data available There are no data available : There are no data available There are no data available : There are no data available There are no data available : There are no data available There are no data available : There are no data available There are no data available : There are no data available There are no data available	Eyes - Mild irritant Rabb Eyes - Redness of the conjunctivae Rabb Skin - Edema Rabb Skin - Erythema/Eschar Rabb Skin - Mild irritant Rabb Skin - Moderate irritant Rabb Skin - Erythema/Eschar Rabb Skin - Erythema/Eschar Rabb Skin - Erythema/Eschar Rabb Skin - Irritant Huma : There are no data available on th There are no data available on th : There are no data available on th There are no data available on th : There are no data available on th Skin Kin Mouse skin Mouse : There are no data available on th There are no data available on th : There are no data available on th There are no data available on th : There are no data available on th There are no data available on th : There are no data available on th There are no data available on th : There are no data available on th There are no data available on th	Eyes - Mild irritant Rabbit Eyes - Redness of the conjunctivae Rabbit Skin - Edema Rabbit Skin - Erythema/Eschar Rabbit Skin - Mild irritant Rabbit Skin - Moderate irritant Rabbit Skin - Moderate irritant Rabbit Skin - Erythema/Eschar Rabbit Eyes - Severe irritant Rabbit Skin - Irritant Human : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture skin Mouse skin Mouse : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture : There are no data available on the mixture	Eyes - Mild irritantRabbit-Eyes - Redness of the conjunctivaeRabbit0.4Skin - EdemaRabbit0.5Skin - Erythema/EscharRabbit0.8Skin - Mild irritantRabbit-Skin - Moderate irritantRabbit-Skin - Erythema/EscharRabbit-Skin - Erythema/EscharRabbit-Skin - Severe irritantRabbit-Skin - IrritantHuman-Skin - IrritantHuman-: There are no data available on the mixture itself.: There are no data available on the mixture itself.: There are no data available on the mixture itself.: There are no data available on the mixture itself.: There are no data available on the mixture itself.: There are no data available on the mixture itself.: There are no data available on the mixture itself.: SkinMouse	Eyes - Mild irritant Rabbit - Eyes - Redness of the conjunctivae Rabbit 0.4 Skin - Edema Rabbit 0.5 Skin - Erythema/Eschar Rabbit 0.8 Skin - Mild irritant Rabbit - Skin - Moderate irritant Rabbit - Skin - Erythema/Eschar Rabbit - Skin - Erythema/Eschar Rabbit - Skin - Erythema/Eschar Rabbit 4 Skin - Erythema/Eschar Rabbit - Skin - Irritant Human - Skin - Irritant Human - Skin - Irritant Human - : There are no data available on the mixture itself. : There are no data available on the mixture itself. : There are no data available on the mixture itself. Sensi skin Mouse Sensi skin Mouse Sensi : There are no data available on the mixture itself. : There are no data available on the mixture itself. : There are no data available on the mixture itself. : There are no data available on the mixture itself. : There are no data available on the mixture itsel	Eyes - Mild irritant Rabbit - 24 hours Eyes - Redness of the conjunctivae Rabbit 0.4 24 hours Skin - Edema Rabbit 0.5 4 hours Skin - Erythema/Eschar Rabbit 0.8 4 hours Skin - Mild irritant Rabbit 0.8 4 hours Skin - Erythema/Eschar Rabbit - 24 hours Skin - Erythema/Eschar Rabbit - 24 hours Skin - Erythema/Eschar Rabbit - - Skin - Irritant Human - - Skin Mouse Sensitizing skin Mouse Sensitizing skin Mouse Sensitizing skin Mouse Sensitizing <

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Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
bis-[4-(2,3-epoxipropoxi) phenyl]propane	-	3	-
xylene	-	3	-
ethylbenzene	-	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)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: blood, liver, heart, brain, skin.

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, the reproductive system, cardiovascular system, upper respiratory tract, central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute healt	<u>1 effects</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs	<u>/symptoms</u>

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Product name SIGMAFAST 278 PURE WHITE RAL 9010 750 X 250 CARTRIDGE- obs

Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain watering
Inhalation	 redness Adverse symptoms may include the following: wheezing and breathing difficulties
	asthma reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths
Ingestion	skeletal malformations Adverse symptoms may include the following:
·	stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
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 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 effects	: There are no data available on the mixture itself.
Potential delayed effects Long term exposure	: There are no data available on the mixture itself.

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Section 11. Toxicological information

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
General	: May cause 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	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: Suspected of damaging 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)
GMAFAST 278 PURE WHITE RAL 9010 750 X 250 CARTRIDGE- obs	10904.3	7441.0	N/A	62.3	7.2
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Limestone	6450	N/A	N/A	N/A	N/A
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	2500	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
benzyl alcohol	1230	2000	N/A	N/A	1.5
2,4,6-tris(dimethylaminomethyl)phenol	1200	1280	N/A	N/A	N/A
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A
ethylenediamine	500	1100	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Limestone	Acute LC50 >56000 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours

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Section 12. Ecological information

-	•		
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC10 1.78 mg/l	Algae	72 hours
5	Aguta EC50 1.8 mg/l Erach water	Dophnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	40 nours -
2,4,6-tris	Acute LC50 >100 mg/l	Daphnia	48 hours
(dimethylaminomethyl)phenol	2		
	Acute LC50 >100 mg/l	Fish	96 hours
Phenol, 2-nonyl-, branched	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 2,4,6-tris (dimethylaminomethyl)phenol	- OECD 301D Ready Biodegradability - Closed Bottle Test		dily - 10 days eadily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
S-[4-(2,3-epoxipropoxi) phenyl]propane xylene Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	-		-		Not read Readily Not read	
ethylbenzene benzyl alcohol 2,4,6-tris (dimethylaminomethyl)phenol	- - -		- - -		Readily Readily Not read	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
X lene	3.12	7.4 to 18.5	Low
4-nonylphenol, branched	5.4	251.19	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
benzyl alcohol	0.87	-	Low
2,4,6-tris	0.219	-	Low
(dimethylaminomethyl)phenol			
ethylenediamine	-2.04	-	Low

Mobility in soil

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Section 12. Ecological information

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	IATA		
UN number	UN3469	UN3469	UN3469		
UN proper shipping name	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE	PAINT, FLAMMABLE, CORROSIVE		
Transport hazard class (es)	3 (8)	3 (8)	3 (8)		
Packing group	Ш	Ш			
Environmental hazards	No.	Yes. Yes. The environmentally hazardous substance mannet not required.			
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.		
Product RQ (lbs)	943.8	Not applicable.	Not applicable.		
RQ substances	(xylene)	Not applicable.	Not applicable.		

14. Transport information

Additional ir	nformation
DOT	 Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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14. Transport information

Special precautions 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.

United States - TSCA 12(b) - Chemical export notification:
<mark>4</mark> ∕-nonylphenol, branched
United States - TSCA 5(a)2 - Proposed significant new use rules:
-nonylphenol, branched
Phenol, 2-nonvl-, branched

SARA 302/304 SARA 304 RQ

: 3129890.5 lbs / 1420970.3 kg [264725.4 gal / 1002094.7 L]

Composition/information on ingredients

	SARA 302 TPQ		02 TPQ	SARA 304 RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
ethylenediamine	Yes.	10000	1337.1	5000	668.5

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Corrosive to digestive tract HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
titanium dioxide	≥10 - ≤20	CARCINOGENICITY - Category 2
bis-[4-(2,3-epoxipropoxi)phenyl]	≥10 - ≤20	SKIN IRRITATION - Category 2
propane		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
xylene	≥10 - ≤13	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)
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One time notification

Listed Listed

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Section 15. Regulatory information

	-	
		(Respiratory tract irritation) - Category 3
Tala not containing achostifered		ASPIRATION HAZARD - Category 1
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	>10 45 0	(Respiratory tract irritation) - Category 3
4-nonylphenol, branched	≥1.0 - <5.0	ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
1 methows 2 preparal	≥1.0 - ≤5.0	HNOC - Corrosive to digestive tract FLAMMABLE LIQUIDS - Category 3
1-methoxy-2-propanol	≥1.0 - ≤5.0	
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
Fatty aside C10 unsetd dimense	>10 <20	(Narcotic effects) - Category 3
Fatty acids, C18-unsatd., dimers,	≥1.0 - ≤3.2	SKIN IRRITATION - Category 2
oligomeric reaction products		SERIOUS EYE DAMAGE - Category 1
with tall-oil fatty acids and		SKIN SENSITIZATION - Category 1A
triethylenetetramine	≥0.10 - ≤2.7	
ethylbenzene	20.10 - ≥2.7	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
benzyl alcohol	≤1.9	ACUTE TOXICITY (oral) - Category 4
	21.9	ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
2,4,6-tris(dimethylaminomethyl)	≤1.7	ACUTE TOXICITY (oral) - Category 4
phenol	21.7	ACUTE TOXICITY (dermal) - Category 4
phenoi		SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
Phenol, 2-nonyl-, branched	<1.0	ACUTE TOXICITY (oral) - Category 4
	\$1.0	SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		TOXIC TO REPRODUCTION - Category 2
		HNOC - Corrosive to digestive tract
ethylenediamine	<1.0	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		RESPIRATORY SENSITIZATION - Category 1A
		SKIN SENSITIZATION - Category 1B

<u>SARA 313</u>

Supplier notification	Chemical name : Viene	<u>CAS number</u> 1330-20-7	Concentration 7 - 13
	4-nonylphenol, branched	84852-15-3	1 - 5
	ethylbenzene	100-41-4	1 - 5

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.

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Section 15. Regulatory information

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 : 3 * Flammability : 3 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 : 3 Flamma Date of previous issue Organization that prepared the SDS	bility : 3 Instability : 0 : 8/18/2023 : 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.