# **SAFETY DATA SHEET**



Date of issue/Date of revision 26 April 2024 Version 3

Section 1. Identification		
Product name	: SIGMADUR 550H BASE RAL 9003	
Product code	: 00444977	
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	
<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	: 888-977-4762	

### Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 6.2% (dermal), 52.4% (inhalation)
	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).

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### Section 2. Hazards identification

#### GHS label elements Hazard pictograms



Signal word	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapor.</li> <li>Causes skin irritation.</li> <li>Suspected of causing cancer.</li> <li>Suspected of damaging fertility or the unborn child.</li> <li>May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>
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. Wash thoroughly after handling.
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. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: 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.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Product name	÷	SIGMADUR 550H BASE RAL 9003

Ingredient name	%	CAS number
titanium dioxide	≥20 - ≤50	13463-67-7
barium sulfate	≥10 - ≤20	7727-43-7
xylene	≥1.0 - ≤6.3	1330-20-7
ethylbenzene	≥1.0 - ≤5.9	100-41-4
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤5.0	64742-95-6
Talc , not containing asbestiform fibres	≥1.0 - ≤4.4	14807-96-6
1,2,4-trimethylbenzene	≤1.9	95-63-6
2-methoxy-1-methylethyl acetate	≥0.10 - ≤2.4	108-65-6
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### Section 3. Composition/information on ingredients

-	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	41556-26-7
	titanium dioxide (<10 microns)	≤1.0	13463-67-7
	propylidynetrimethanol	≤1.0	77-99-6

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	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

No known significant effects or critical hazards.
No known significant effects or critical hazards.
Causes skin irritation. Defatting to the skin.
No known significant effects or critical hazards.
<u>ms</u>
Adverse symptoms may include the following: pain or irritation watering redness
Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths

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### Section 4. First aid measures

Ingestion	<ul> <li>skeletal malformations</li> <li>Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

	_
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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 sulfur oxides phosphorus 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		

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### Section 6. Accidental release measures

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.
Large spill	:	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). 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.

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### Section 7. Handling and storage

Conditions for safe storage, including any	: 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
incompatibilities	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**

titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2023).
	TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable
	fraction, finescale particles
barium sulfate	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes (o-, m-, p-isomers)]
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
n-butyl acetate	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m <sup>3</sup> 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [Butyl
	acetates all isomers] STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2023).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
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### Section 8. Exposure controls/personal protection

1,2,4-trimethylbenzene		TWA: 2 mg/m <sup>3</sup> ACGIH TLV (United States, 1/2023).
-		TWA: 10 ppm 8 hours.
2-methoxy-1-methylethyl acetate		IPEL (-, 10/2017). Absorbed through skin.
		TWA: 30 ppm
		STEL: 90 ppm
bis(1,2,2,6,6-pentamethyl-4-pip	eridyl) sebacate	None.
titanium dioxide (<10 microns)	indyl) cobacato	OSHA PEL (United States, 5/2018).
		TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
		ACGIH TLV (United States, 1/2023).
		TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: respirable
		fraction, finescale particles
propylidy motrim other pol		•
propylidynetrimethanol		None.
	Key to abbreviations	
A = Acceptable Maximum Peak		S = Potential skin absorption
	overnmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit		SS = Skin sensitization
F = Fume	un Limit	STEL = Short term Exposure limit values TD = Total dust
IPEL = Internal Permissible Exposu OSHA = Occupational Safety and He		TD = Total dust TLV = Threshold Limit Value
John – Occupational Salety and the		TWA = Time Weighted Average
R = Respirable	Subpart Z - Toxic and Hazardous Substances	
R= RespirableZ= OSHA 29 CFR 1910.1200 SDescriptionDescri	• •	
R= RespirableZ= OSHA 29 CFR 1910.1200 SDescriptionDescri	<b>ceptable exposure limits.</b> Reference should be made to appro	priate monitoring standards. Reference to nationar the determination of hazardous substances will
R = Respirable Z = OSHA 29 CFR 1910.1200 S onsult local authorities for acc Recommended monitoring :	<ul> <li>ceptable exposure limits.</li> <li>Reference should be made to approguidance documents for methods for also be required.</li> <li>Use only with adequate ventilation. other engineering controls to keep with recommended or statutory limits. The vapor or dust concentrations below a ventilation equipment.</li> <li>Emissions from ventilation or work pithey comply with the requirements of cases, fume scrubbers, filters or engineering controls or engineering cases.</li> </ul>	priate monitoring standards. Reference to nationa r the determination of hazardous substances will Use process enclosures, local exhaust ventilation rorker exposure to airborne contaminants below a ne engineering controls also need to keep gas, any lower explosive limits. Use explosion-proof process equipment should be checked to ensure f environmental protection legislation. In some gineering modifications to the process equipment
R       = Respirable         Z       = OSHA 29 CFR 1910.1200 S         consult local authorities for acc         Recommended monitoring         corocedures         propriate engineering         controls	<ul> <li>ceptable exposure limits.</li> <li>Reference should be made to approguidance documents for methods for also be required.</li> <li>Use only with adequate ventilation. other engineering controls to keep werecommended or statutory limits. The vapor or dust concentrations below a ventilation equipment.</li> <li>Emissions from ventilation or work pethey comply with the requirements of cases, fume scrubbers, filters or enginements of the scrubbers, filters or enginement.</li> <li>Wash hands, forearms and face the scrubbers.</li> </ul>	priate monitoring standards. Reference to national r the determination of hazardous substances will Use process enclosures, local exhaust ventilation worker exposure to airborne contaminants below a ne engineering controls also need to keep gas, any lower explosive limits. Use explosion-proof process equipment should be checked to ensure f environmental protection legislation. In some gineering modifications to the process equipment ns to acceptable levels.
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### 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	: For prolonged or repeated handling, use the following type of gloves:
	May be used: Chloroprene, nitrile rubber Recommended: neoprene, natural rubber (latex), butyl rubber, polyvinyl alcohol (PVA), Viton®
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.
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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: White.
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 24°C (75.2°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.56

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### Section 9. Physical and chemical properties

Density ( lbs / gal )	13.02	
	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	43% (v/v), 24.389% (w/w)	
% Solid. (w/w)	75.611	
Section 10. Stabil	and reactivity	
Reactivity	No specific test data related to reactivity available for this product or its ingre	edients.
Chemical stability	The product is stable.	
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not or	cur.
Conditions to avoid	When exposed to high temperatures may produce hazardous decompositio Refer to protective measures listed in sections 7 and 8.	n products.
Incompatible materials	Keep away from the following materials to prevent strong exothermic reaction oxidizing agents, strong alkalis, strong acids.	ons:
Hazardous decomposition	Depending on conditions, decomposition products may include the following	materials:

## Hazardous decomposition : Depending on conditions, decomposition products may include the following materials: products : carbon oxides sulfur oxides phosphorus 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	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
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### Section 11. Toxicological information

LD50 Dermal	Rabbit	3.48 g/kg	-
LD50 Oral	Rat	8400 mg/kg	-
LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
LD50 Oral	Rat	5 g/kg	-
LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
LD50 Dermal	Rabbit	>5 g/kg	-
LD50 Oral	Rat	6190 mg/kg	-
LD50 Oral	Rat	3.125 g/kg	-
LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LD50 Dermal	Rabbit	10 g/kg	-
LD50 Oral	Rat	14000 mg/kg	-
	LD50 Oral LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Dermal	LD50 Oral LC50 Inhalation Vapor LD50 Oral LC50 Inhalation VaporRat Rat RatLD50 Oral LD50 Dermal LD50 OralRabbit RatLD50 Oral LD50 OralRat RatLC50 Inhalation Dusts and mistsRatLD50 Dermal LD50 OralRat RatLD50 Dermal LD50 OralRatLD50 Dermal LD50 Dermal LD50 OralRatLD50 Dermal LD50 Oral LD50 OralRat RatLD50 Dermal LD50 Oral LD50 DermalRabbit Rat Rat Rat Rat	LD50 Oral LC50 Inhalation Vapor LD50 Oral LC50 Inhalation VaporRat Rat Rat Rat8400 mg/kg 18000 mg/m³ S g/kg 30 mg/lLD50 Oral LD50 Dermal LD50 Oral LD50 OralRabbit Rat Rat>5 g/kg 6190 mg/kg 3.125 g/kgLC50 Inhalation Dusts and mistsRat Rat>6.82 mg/lLD50 Dermal LD50 OralRat Rat>5000 mg/kg S.125 g/kgLC50 Inhalation Dusts and mistsRat Rat Rat Rat>5000 mg/kg S000 mg/kg S000 mg/kg ID50 Dermal Rat Rabbit10 g/kg

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Mod	erate irritar	t Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	<u>.</u>			·		-
Skin	: There are no data available on the mixture itself.					
Eyes	: There are	e no data av	ailable on the mix	ture itself.		
Respiratory	: There are	e no data av	ailable on the mix	ture itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data av	ailable on the mix	ture itself.		
Respiratory	: There are	e no data av	ailable on the mix	ture itself.		
Mutagenicity						
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.					
<b>Carcinogenicity</b>						
Conclusion/Summary						
<b>Classification</b>						
Product/ingredient name	OSHA	IARC	NTP			
<b>ti</b> tanium dioxide	-	2B	-			
xylene	-	3	-			
ethylbenzene	-	2B	-			
titanium dioxide (<10 microns)	-	2B	-			

Carcinogen Classification code:

Product name SIGMADUR 550H BASE RAL 9003

### Section 11. Toxicological information

IARC: 1, 2A, 2B, 3, 4	
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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
n-butyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	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: brain, central nervous system (CNS).

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

#### Aspiration hazard

Inhalation

Ingestion

Skin contact

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

#### Information on the likely routes of exposure

#### Potential acute health effects

- **Eye contact** : No known significant effects or critical hazards.
  - : No known significant effects or critical hazards.
    - : Causes skin irritation. Defatting to the skin.
    - : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Product name SIGMADUR 550H BASE RAL 9003

### Section 11. Toxicological information

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	<ul> <li>Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations</li> </ul>
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts 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	: There are no data available on the mixture itself.
Long term exposure Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects Potential chronic health effects	: There are no data available on the mixture itself.

Product name SIGMADUR 550H BASE RAL 9003

### Section 11. Toxicological information

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.
Carcinogenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
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)
GMADUR 550H BASE RAL 9003	6916.4	4654.2	N/A	47.9	5.1
barium sulfate	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
ethylbenzene	3500	17800	N/A	17.8	1.5
n-butyl acetate	10768	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
propylidynetrimethanol	14000	10000	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 - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide (<10 microns) propylidynetrimethanol	Acute LC50 >100 mg/l Fresh water Acute LC50 >1000 mg/l	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
₢fhylbenzene n-butyl acetate	- TEPA and OECD	79 % - Readily - 10 days 83 % - Readily - 28 days	-	-
2-methoxy-1-methylethyl acetate	301D -	83 % - Readily - 28 days	-	-

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#### Product name SIGMADUR 550H BASE RAL 9003

### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<ul> <li>▼ylene</li> <li>ethylbenzene</li> <li>n-butyl acetate</li> <li>2-methoxy-1-methylethyl</li> <li>acetate</li> </ul>	- - -		Readily Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
n-butyl acetate	2.3	-	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
propylidynetrimethanol	-0.47	-	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

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Disposal methods
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: 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

#### Product name SIGMADUR 550H BASE RAL 9003

### 14. Transport information

	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	Ш	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	1610.3	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

#### Additional information

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 L or $\leq$ 5 kg.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# **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.

SARA 302/304

SARA 304 RQ : Not applicable.

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

No products were found.

#### SARA 311/312

Product name SIGMADUR 550H BASE RAL 9003

### Section 15. Regulatory information

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

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

Name	%	Classification
<b>ti</b> tanium dioxide	≥20 - ≤50	CARCINOGENICITY - Category 2
xylene	≥1.0 - ≤6.3	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
ethylbenzene	≥1.0 - ≤5.9	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
n-butyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		HNOC - Defatting irritant
Solvent naphtha (petroleum),	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
light aromatic		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
Talc , not containing asbestiform	≥1.0 - ≤4.4	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
1,2,4-trimethylbenzene	≤1.9	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
2-methoxy-1-methylethyl acetate	≥0.10 - ≤2.4	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
bis(1,2,2,6,6-pentamethyl-	<1.0	SKIN SENSITIZATION - Category 1B
4-piperidyl) sebacate		TOXIC TO REPRODUCTION - Category 2
titanium dioxide (<10 microns)	≤1.0	CARCINOGENICITY - Category 2
propylidynetrimethanol	≤1.0	TOXIC TO REPRODUCTION - Category 2

#### SARA 313

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Product name SIGMADUR 550H BASE RAL 9003

### Section 15. Regulatory information

	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: xylene	1330-20-7	3 - 7
	ethylbenzene	100-41-4	3 - 7
	trizinc bis(orthophosphate)	7779-90-0	1 - 5
	1,2,4-trimethylbenzene	95-63-6	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.

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 : 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 : 2 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.

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