SAFETY DATA SHEET



Date of issue/Date of revision 4 April 2024 Version 3

Section 1. Identification			
Product name	: SIGMADUR 550 BAS RAL 5003		
Product code	: 000001162985		
Other means of identification	: 00385025; 00472123		
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 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 3.2% (dermal), 31.2% (inhalation)

Date of issue 4 April 2024

Product name SIGMADUR 550 BAS RAL 5003

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).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause 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. 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. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. 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. 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 container tightly closed. 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. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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.
	United States Page: 2/18
	United States Fage. 2/10

Date of issue 4 April 2024

Product name SIGMADUR 550 BAS RAL 5003

Section 2. Hazards identification

Hazards not otherwise classified

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

Section 3. Composition/information on ingredients

: Mixture

Substance/mixture

Product name

: SIGMADUR 550 BAS RAL 5003

Other means of id

: 00385025; 00472123

en	tif	ica	tio	n

Ingredient name	%	CAS number
barium sulfate	≥20 - ≤50	7727-43-7
xylene	≥20 - ≤34	1330-20-7
n-butyl acetate	≥5.0 - ≤10	123-86-4
ethylbenzene	≥1.0 - ≤5.0	100-41-4
Talc, not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
2-methoxy-1-methylethyl acetate	≥1.0 - ≤4.1	108-65-6
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	41556-26-7
carbon black	≤1.0	1333-86-4
toluene	<1.0	108-88-3

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 : 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. : If swallowed, seek medical advice immediately and show this container or label. Keep Ingestion person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye irritation.

Product name SIGMADUR 550 BAS RAL 5003

Section 4. First aid measures

Inhalation : Harmful If inhaled. May cause respiratory irritation. Skin contact : Causes skin irritation. Defating to the skin. 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 Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing 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: irritation redness Ingestion : Adverse symptoms may include the following: irreduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed. If necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No accion shall be taken involving any personal risk or without suitable training. If it is suspected that furmes are still present,				
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 Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation redness 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 Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed. If necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No 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	Inhalation	: Harmful if inhaled. May cause respiratory irritation.		
Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irritation 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 Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed. if necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No specific treatment. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. 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 thoroughy with water	Skin contact	Causes skin irritation. Defatting to the skin.		
Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: respiratory tract irritation skeletal malformations Skin contact : Adverse symptoms may include the following: irritation 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 Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No 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	Ingestion	: No known significant effects or critical hazards.		
pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation reduced fetal weight increase in fetal deaths skeletal malformations dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed. If necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Protection of first-aider	Over-exposure signs/symp	<u>toms</u>		
respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations skeletal malformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations skeletal malformations Ingestion : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations skeletal malformations Indication of immediate medical attention and special treatment needed. if necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : No specific treatment. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. 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	Eye contact	pain or irritation watering		
irritation 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 : Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments : 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	Inhalation	respiratory tract irritation coughing reduced fetal weight increase in fetal deaths		
Indication of immediate medical attention and special treatment needed, if necessaryNotes 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	Skin contact	irritation redness dryness cracking reduced fetal weight increase in fetal deaths		
 Notes to physician Specific treatments Protection of first-aiders 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. No specific treatment. 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 	Ingestion	reduced fetal weight increase in fetal deaths		
 Specific treatments Protection of first-aiders The exposed person may need to be kept under medical surveillance for 48 hours. No specific treatment. 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 	Indication of immediate mee	lical attention and special treatment needed, if necessary		
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	Notes to physician			
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	Specific treatments	: No specific treatment.		
	Protection of first-aiders	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		

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.

Product name SIGMADUR 550 BAS RAL 5003

Section 5. Fire-fighting measures

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 sulfur 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, protec	tive 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.		
For emergency responders			
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	ntainment 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.		

Product name SIGMADUR 550 BAS RAL 5003

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.
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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
arium sulfate	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
xylene	OSHA PEL (United States, 5/2018).
-	[Xylenes (o-, m-, p-isomers)]
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	United States Page: 6/18

Product name SIGMADUR 550 BAS RAL 5003

Section 8. Exposure controls/personal protection

n-butyl acetate	xylene and mixtures containing p-xylene] Ototoxicant. TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 710 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2023). [Butyl acetates all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. ACGIH TLV (United States, 1/2023). Ototoxicant. TWA: 20 ppm 8 hours. OSHA PEL (United States, 5/2018). TWA: 435 mg/m ³ 8 hours.
Talc , not containing asbestiform fibres	TWA: 100 ppm 8 hours. ACGIH TLV (United States, 1/2023). TWA: 2 mg/m ³ 8 hours. Form: Respirable
titanium dioxide	OSHA PEL Z3 (United States). TWA: 2 mg/m ³ OSHA PEL (United States, 5/2018). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 1/2023).
2-methoxy-1-methylethyl acetate	TWA: 2.5 mg/m ³ 8 hours. Form: respirable fraction, finescale particles IPEL (-, 10/2017). Absorbed through skin. TWA: 30 ppm STEL: 90 ppm
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2023). [Silica, crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable OSHA PEL Z3 (United States, 6/2016). TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form: Respirable TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 μg/m ³ 8 hours. Form: Respirable dust
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate carbon black	None. ACGIH TLV (United States, 1/2023). TWA: 3 mg/m ³ 8 hours. Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 3.5 mg/m ³ 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013). AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 1/2023).

United States Page: 7/18

Product name SIGMADUR 550 BAS RAL 5003

Section 8. Exposure controls/personal protection

	Ototoxicant.			
		TWA: 20 ppm 8 hours.		
C = Ceiling Limit F = Fume IPEL = Internal Permissible Expos OSHA = Occupational Safety and H R = Respirable	Sovernmental Industrial Hygienists. sure Limit lealth Administration. Subpart Z - Toxic and Hazardous Substances	S= Potential skin absorptionSR= Respiratory sensitizationSS= Skin sensitizationSTEL= Short term Exposure limit valuesTD= Total dustTLV= Threshold Limit ValueTWA= Time Weighted Average		
Recommended monitoring procedures		opriate monitoring standards. Reference to nation or the determination of hazardous substances will		
Appropriate engineering controls	other engineering controls to keep w recommended or statutory limits. Th	Use process enclosures, local exhaust ventilation worker exposure to airborne contaminants below The engineering controls also need to keep gas, any lower explosive limits. Use explosion-proof		
Environmental exposure controls	process equipment should be checked to ensure of environmental protection legislation. In some igineering modifications to the process equipment ons to acceptable levels.	t		
Individual protection measure	<u>S</u>			
Hygiene measures	eating, smoking and using the lavate Appropriate techniques should be us	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing. e reusing. Ensure that eyewash stations and safe on location.		
Eye/face protection	: Chemical splash goggles.			
Skin protection				
Hand protection	worn at all times when handling chern necessary. Considering the parame during use that the gloves are still re- noted that the time to breakthrough glove manufacturers. In the case of protection time of the gloves cannot		s is	
Gloves	: For prolonged or repeated handling, May be used: Chloroprene, butyl rub Not recommended: nitrile rubber Recommended: neoprene, natural rub			

Product name SIGMADUR 550 BAS RAL 5003

Section 8. Exposure controls/personal protection

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	1	Liquid.	
Color	1	Blue.	
Odor	1	Aromatic. [Slight]	
Odor threshold	1	Not available.	
рН	÷	Not applicable.	
Melting point	4	Not available.	
Boiling point	4	>37.78°C (>100°F)	
Flash point	4	Closed cup: 28°C (82.4°F)	
Auto-ignition temperature	1	Not available.	
Decomposition temperature	1	Not available.	
Flammability	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Evaporation rate	1	Not available.	
Vapor pressure	1	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.28	
Density(lbs / gal)	1	10.68	
		Media	Result
Solubility(ies)	÷	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Viscosity	1	Kinematic (room temperatur Kinematic (40°C (104°F)): >	
Volatility	1	54% (v/v), 36.142% (w/w)	
% Solid. (w/w)	:	63.858	

United States

Page: 9/18

Product name SIGMADUR 550 BAS RAL 5003

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 sulfur oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
arium 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	-
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	-
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	-
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	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product name SIGMADUR 550 BAS RAL 5003

Section 11. Toxicological information

Product/ingredient name	Result		Species	Score	Exposure	Observation
ylene	Skin - Mod	lerate irritar	nt Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	-					- <u>-</u>
Skin	: There are	e no data av	vailable on the mixtu	ure itself.		
Eyes	: There are	e no data av	vailable on the mixtu	ure itself.		
Respiratory	: There are	e no data av	vailable on the mixtu	ure itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data av	vailable on the mixtu	ure itself.		
Respiratory	: There are	e no data av	vailable on the mixtu	ure itself.		
Nutagenicity						
Conclusion/Summary	• There are	e no data av	vailable on the mixtu	ıre itself		
Carcinogenicity						
Conclusion/Summary	• There are	no data av	vailable on the mixtu	ura itsalf		
•	. There are	5 no uala av		are itsen.		
<u>Classification</u>		T	1			
Product/ingredient name	OSHA	IARC	NTP			
x ylene	-	3	-			
ethylbenzene	-	2B	-			
titanium dioxide	-	2B	-			
crystalline silica, respirable	+	1	Known to be a hum	nan carcinoge	en.	
powder (<10 microns)						
carbon black	-	2B	-			
toluene	-	3	-			

Reproductive toxicity

OSHA: +

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)

Not listed/not regulated: -

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

Specific target organ toxicity (repeated exposure)

United States Page: 11/18

Product name SIGMADUR 550 BAS RAL 5003

Section 11. Toxicological information

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
toluene	Category 2	-	-

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, cardiovascular system, upper respiratory tract, skin,

central nervous system (CNS), ears, eye, lens or cornea.

Aspiration hazard

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 Inhalation Skin contact	 Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. Defatting to the skin.
Ingestion Over-exposure signs/sympton	: No known significant effects or critical hazards. ms
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths
Skin contact	skeletal malformations 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
Delayed and immediate effect	and also chronic effects from short and long term exposure

Product name SIGMADUR 550 BAS RAL 5003

Section 11. Toxicological information

Conclusion/Summary	:	There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. 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	:	There are no data available on the mixture itself.
Potential chronic health effe	<u>ect</u>	<u>S</u>
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	:	May cause 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)
			United	States	Page: 13/18

Version 3

Product name SIGMADUR 550 BAS RAL 5003

Section 11. Toxicological information

GMADUR 550 BAS RAL 5003	14702.9	4031.3	N/A	28.4	3.7
barium sulfate	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
n-butyl acetate	10768	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	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
toluene	5580	8390	N/A	49	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inc	oculum
p -butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-	-	
ethylbenzene	-	79 % - Readily - 10 days		-	-	
2-methoxy-1-methylethyl acetate	-		dilý - 28 days	-	-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodegrad	ability
xylene	-		-		Readily	
n-butyl acetate	-		-		Readily	
ethylbenzene	-		-		Readily	
2-methoxy-1-methylethyl	-		-		Readily	
acetate						
toluene	_				Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
 ▼ylene n-butyl acetate ethylbenzene 2-methoxy-1-methylethyl acetate 	3.12 2.3 3.6 1.2	7.4 to 18.5 - 79.43 -	Low Low Low Low
toluene	2.73	8.32	Low

Mobility in soil

United States	Page: 14/18

Product name SIGMADUR 550 BAS RAL 5003

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	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111		III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	# 17.05	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

14. Transport information

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	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
ΙΑΤΑ	: None identified.

Date of issue 4 April 2024

Product name SIGMADUR 550 BAS RAL 5003

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 5(a): Silicone Containing Additive SARA 302/304	2 - Final significant new use rules:	Listed	40 CFR 721.10854
SARA 304 RQ	: Not applicable.		
Composition/information	on ingredients		
No products were found.			
<u>SARA 311/312</u>			
Classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SING irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REF HNOC - Defatting irritant	, (

Composition/information on ingredients

Name	%	Classification				
₩ylene	≥20 - ≤34	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				
in both dia antata		ASPIRATION HAZARD - Category 1				
n-butyl acetate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant				
ethylbenzene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1				
		United States Page: 16/18				

Product name SIGMADUR 550 BAS RAL 5003

Section 15. Regulatory information

	HNOC - Defatting irritant
≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Respiratory tract irritation) - Category 3
≥1.0 - ≤5.0	CARCINOGENICITY - Category 2
≥1.0 - ≤4.1	FLAMMABLE LIQUIDS - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Narcotic effects) - Category 3
<1.0	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 1
<1.0	SKIN SENSITIZATION - Category 1B
	TOXIC TO REPRODUCTION - Category 2
≤1.0	COMBUSTIBLE DUSTS
	CARCINOGENICITY - Category 2
<1.0	FLAMMABLE LIQUIDS - Category 2
	SKIN IRRITATION - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
	(Narcotic effects) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	EXPOSURE) - Category 2
	ASPIRATION HAZARD - Category 1
	HNOC - Defatting irritant
	≥1.0 - ≤4.1 <1.0 <1.0 ≤1.0

<u>SARA 313</u>

Supplier notificationChemical nameSupplier notification: Kylene ethylbenzene	CAS numberConcentration1330-20-710 - 30100-41-41 - 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

MARNING: Cancer and Reproductive Harm - 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	Flammability	:	3	Instability	:	0
Date of previous issue : 10/24/2023								

United States Page: 17/18

Date of issue 4 April 2024

Product name SIGMADUR 550 BAS RAL 5003

Section 16. Other information

Organization that prepared the SDS	: 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 = International Air Transport Association IBC = 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.