SAFETY DATA SHEET



Date of issue/Date of revision 1 February 2024 Version 20

Section 1. Identification	
Product name	: SIGMADUR 540 BASE
Product code	: 00202801
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	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 25% (oral), 26.6% (dermal), 35.1% (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
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Section 2. Hazards identification

engineering controls (see Section 8).
: Danger
 Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
: 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.
: 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
: Store locked up. Store in a well-ventilated place. Keep cool.
: Dispose of contents and container in accordance with all local, regional, national and international regulations.
: 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.
: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
tranium dioxide	≥20 - ≤50	13463-67-7
n-butyl acetate	≥5.0 - ≤11	123-86-4
xylene	≥5.0 - ≤10	1330-20-7
barium sulfate	≥5.0 - ≤8.4	7727-43-7
2-methylpropan-1-ol	≥1.0 - ≤3.8	78-83-1
dimethyl glutarate	≥1.0 - ≤5.0	1119-40-0
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	≥1.0 - ≤4.1	9082-00-2
Solvent naphtha (petroleum), light aromatic	≥0.10 - ≤2.7	64742-95-6
2-methoxy-1-methylethyl acetate	≥0.10 - ≤2.1	108-65-6
ethylbenzene	≥1.0 - ≤3.2	100-41-4
1,2,4-trimethylbenzene	≥0.10 - ≤2.4	95-63-6
dimethyl succinate	≥1.0 - ≤5.0	106-65-0
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<1.0	41556-26-7
Hexanoic acid, 2-ethyl-, zinc salt, basic	<1.0	85203-81-2
propylidynetrimethanol	≤1.0	77-99-6
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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	<u>ms</u>

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Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate med	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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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

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Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	 training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	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.

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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			
titanium dioxide	OSHA PEL (United States, 5/2018).			
	TWA: 15 mg/m ³ 8 hours. Form: Total dust			
	ACGIH TLV (United States, 1/2023).			
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable			
	fraction, finescale particles			
n-butyl acetate	OSHA PEL (United States, 5/2018).			
	TWA: 710 mg/m ³ 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.			
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Section 8. Exposure controls/personal protection

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-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
Level and the first	TWA: 20 ppm 8 hours.
barium sulfate	ACGIH TLV (United States, 1/2023).
	TWA: 5 mg/m ³ 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2023).
	TWA: $152 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 50 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 300 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
dimethyl glutarate	IPEL (-).
	TWA: 1.5 ppm
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol	None.
(3:1)	
Solvent naphtha (petroleum), light aromatic	None.
2-methoxy-1-methylethyl acetate	IPEL (-, 10/2017). Absorbed through skin.
	TWA: 30 ppm
	STEL: 90 ppm
ethylbenzene	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.
	TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2023).
	TWA: 10 ppm 8 hours.
dimethyl succinate	IPEL (-).
	TWA: 1.5 ppm
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	None.
Hexanoic acid, 2-ethyl-, zinc salt, basic	None.
propylidynetrimethanol	None.
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).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
Key to abbreviations	
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
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Section 8. Exposure controls/personal protection

С	 Ceiling Limit 	

- F = Fume
- IPEL = Internal Permissible Exposure Limit
- OSHA = Occupational Safety and Health Administration.
 - R = Respirable Ζ

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

Consult local authorities for acceptable exposure limits.

SS = Skin sensitization STEL

- = Short term Exposure limit values
- TD = Total dust
- TLV = Threshold Limit Value
- TWA = Time Weighted Average
- **Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will procedures also be required. Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or controls other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Emissions from ventilation or work process equipment should be checked to ensure **Environmental exposure** they comply with the requirements of environmental protection legislation. In some controls cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Individual protection measures **Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face protection Chemical splash goggles and face shield. **Skin protection** Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is
 - necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
 - Gloves : For prolonged or repeated handling, use the following type of gloves:
 - May be used: Chloroprene, nitrile rubber Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), butyl rubber, 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Other skin protection : Appropriate footwear and any additional skin protection measures should be selected
 - based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Section 8. Exposure controls/personal protection

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	1	Various							
Odor	:	Not available.							
Odor threshold	:	Not available.							
рН	4	Not applicable.	Not applicable.						
Melting point	4	Not available.							
Boiling point	1	>37.78°C (>100°F)							
Flash point	1	Closed cup: 27°C (80.6°F)							
Auto-ignition temperature	:	315°C (599°F)							
Decomposition temperature	1	Not available.							
Flammability	1	Not available.							
Lower and upper explosive (flammable) limits	:	Not available.							
Evaporation rate	1	Not available.							
Vapor pressure	1	Not available.							
Vapor density	:	Not available.							
Relative density	1	1.3							
Density(lbs / gal)	:	10.85							
		Media	Result						
Solubility(ies)	÷	cold water	Not soluble						
Partition coefficient: n- octanol/water	:	Not applicable.							
Viscosity	:	Kinematic (room temperatu Kinematic (40°C (104°F)): >							
Volatility	1	51% (v/v), 34.74% (w/w)							
% Solid. (w/w)	1	65.26							

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Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur 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	-
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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
dimethyl glutarate	LC50 Inhalation Dusts and mists	Rat	>11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	LD50 Dermal	Rabbit	>5 g/kg	-
1,2,0-proparienti (0.1)	LD50 Oral	Rat	>10 g/kg	
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
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	LD50 Oral	Rat	6190 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
	LD50 Oral	Rat	5 g/kg	-
dimethyl succinate	LC50 Inhalation Dusts and mists	Rat	>5900 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5 g/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate				
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/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/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summany					-

	Product/ingredient name		OSHA	IARC	NTP
	<u>Classification</u>				
	Conclusion/Summary	:	There are	e no data av	vailable on the mixture itself.
<u>C</u>	arcinogenicity				
	Conclusion/Summary	:	There are	e no data av	vailable on the mixture itself.
N	lutagenicity				
	Respiratory	:	There are	e no data av	vailable on the mixture itself.
	Skin	:	There are	e no data av	vailable on the mixture itself.
	Conclusion/Summary				
<u>S</u>	ensitization				
	Respiratory	:	There are	e no data av	vailable on the mixture itself.
	Eyes	:	There are	e no data av	vailable on the mixture itself.
	Skin	:	There are	e no data av	vailable on the mixture itself.
	<u>Conclusion/Summary</u>				

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
xylene	-	3	-
ethylbenzene	-	2B	-
toluene	-	3	-

Carcinogen Classification code:

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

Reproductive toxicity

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Section 11. Toxicological information

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
n-butyl acetate	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2 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, upper respiratory tract, skin, ears, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health	<u>effects</u>
Eye contact Inhalation Skin contact Ingestion Over-exposure signs/	 Causes serious eye damage. No known significant effects or critical hazards. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Eye contact	: Adverse symptoms may include the following: pain watering redness

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Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	pain or irritation redness
	dryness
	cracking
	blistering may occur
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	stomach pains reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Delayed and immediate effe	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.
<u>Short term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.

Product name SIGMADUR 540 BASE

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	 Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SIGMADUR 540 BASE	8341.3	8222.2	N/A	70.0	8.4
n-butyl acetate	10768	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
barium sulfate	N/A	2500	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	500	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	6190	N/A	N/A	30	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
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
toluene	5580	8390	N/A	49	N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

Persistence and degradability

Product name SIGMADUR 540 BASE

Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-		-
2-methoxy-1-methylethyl acetate ethylbenzene	-	83 % - Readily - 28 days 79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life	life Photolysis			Biodeg	radability
 p-butyl acetate xylene 2-methoxy-1-methylethyl acetate ethylbenzene 			-		Readily Readily Readily Readily	
toluene	-		-		Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
-butyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
dimethyl glutarate	0.49	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
ethylbenzene	3.6	79.43	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
dimethyl succinate	0.33	-	Low
propylidynetrimethanol	-0.47	-	Low
toluene	2.73	8.32	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

coefficient (Koc)

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

United States Page: 15/19

Product name SIGMADUR 540 BASE

Section 13. Disposal considerations

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with soil, waterways, drains and sewers.
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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

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	111	Ш	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	1247	Not applicable.	Not applicable.
RQ substances	(xylene, n-butyl acetate)	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
 : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

IATA : None identified.

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) : At least one component is not listed.

United States - TSCA 5(a)	2 - Final significant new use rules:	
Silicone Containing Additiv	e	Listed
<u>SARA 302/304</u>		
SARA 304 RQ	: Not applicable.	
	and the same attained as	

Composition/information on ingredients

No products were found.

United States Page: 16/19

40 CFR 721.10854

Product name SIGMADUR 540 BASE

Section 15. Regulatory information

SARA 311/312

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

Composition/information on ingredients

n-butyl acetate ≥5.0 - ≤11 FLAMMABLE LQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant xylene ≥5.0 - ≤10 FLAMMABLE LQUIDS - Category 3 ACUTE TOXICITY (drmal) - Category 4 ACUTE TOXICITY (drmal) - Category 4 ACUTE TOXICITY (drmal) - Category 4 ACUTE TOXICITY (drmal) - Category 4 SKIN IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SKIN IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant Oxirane, 2-methyl-, polymer with oxirane, ether with oxirane, ether with 12,3-propanetriol (3:1) Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤4.1 ACUTE TOXICITY (cral) - Category 3 SKIN IRRITATION - Category 2 SYLIPIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SKIN IRRITATION + Category 3 SKIN IRRITATION + Category 3 SKIN IRRITATION + Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) 	Name	%	Classification
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SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 2-methylpropan-1-ol ≥1.0 - ≤3.8 FLAMMABLE LIQUIDS - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SKIN IRRITATION - Category 2 Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤4.1 ACUTE TOXICITY (oral) - Category 3 SKIN IRRITATION - Category 4 EYE IRRITATION - Category 3 SNC - Defatting irritant 2neethyl-, polymer with 1,2,3-propanetriol (3:1) Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤4.1 ACUTE TOXICITY (oral) - Category 3 SKIN IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defating irritant 1,2,4-trimethylbenzene			
2-methylpropan-1-ol $\geq 1.0 - \leq 3.8$ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 4 EYE IRRITATION - Category 2 SCATEGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SCHICH TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 ACUTE TOXICITY (INHALTARD - Category 4 CARCINOGENTOXICITY (INHALTARD - Category 2 ASPIRATI			
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2-methylpropan-1-ol ≥1.0 - ≤3.8 FLAMMABLE LIQUIDS - Category 1 2-methylpropan-1-ol ≥1.0 - ≤3.8 FLAMMABLE LIQUIDS - Category 1 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) ≥1.0 - ≤4.1 ACUTE TOXICITY (oral) - Category 4 Solvent naphtha (petroleum), light aromatic ≥0.10 - ≤2.7 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 4 EYE IRRITATION - Category 2 2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.7 FLAMMABLE LIQUIDS - Category 3 actific effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 actific effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 actific effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 actific effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 actific effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 actific effects) - Category 3 <t< td=""><td></td><td></td><td></td></t<>			
2-methylpropan-1-ol ≥1.0 - ≤3.8 ASPİRATIÓN HAZARD - Čategory 1 FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 3 SKIN IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) ≥1.0 - ≤4.1 ACUTE TOXICITY (oral) - Category 4 Solvent naphtha (petroleum), light aromatic ≥1.0 - ≤2.7 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SFECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 ethylbenzene ≥1.0 - ≤3.2 FLAMMABLE LIQUIDS - Category 3 spECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 spECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤2.4 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOS			
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Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1) ≥1.0 - ≤4.1 ACUTE TOXICITY (oral) - Category 4 Solvent naphtha (petroleum), light aromatic ≥0.10 - ≤2.7 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 3 ASPIRATION HAZARD - Category 3 2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 ethylbenzene ≥1.0 - ≤3.2 FLAMMABLE LIQUIDS - Category 3 sPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 FLAMMABLE LIQUIDS - Category 2 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 1 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 1			
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light aromatic SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant Prethoxy-1-methylethyl acetate ≥0.10 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3		≥0.10 - ≤2.7	FLAMMABLE LIQUIDS - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant2-methoxy-1-methylethyl acetate ethylbenzene $\geq 0.10 - \leq 2.1$ FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 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 1,2,4-trimethylbenzene1,2,4-trimethylbenzene $\geq 0.10 - \leq 2.4$ $\geq 0.10 - \leq 2.4$			
2-methoxy-1-methylethyl acetate $\geq 0.10 - \leq 2.1$ (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant2-methoxy-1-methylethyl acetate $\geq 0.10 - \leq 2.1$ FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 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 1,2,4-trimethylbenzene1,2,4-trimethylbenzene $\geq 0.10 - \leq 2.4$			
2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.1 ASPIRATION HÁZARD - Cátegory 1 HNOC - Defatting irritant 2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			
2-methoxy-1-methylethyl acetate ≥0.10 - ≤2.1 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 EXPOSURE LIQUIDS - Category 3			
ethylbenzene ≥1.0 - ≤3.2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ethylbenzene ≥1.0 - ≤3.2 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			HNOC - Defatting irritant
ethylbenzene ≥1.0 - ≤3.2 FLAMMABLE LIQUIDS - Category 3 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3	2-methoxy-1-methylethyl acetate	≥0.10 - ≤2.1	FLAMMABLE LIQUIDS - Category 3
ethylbenzene ≥1.0 - ≤3.2 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 1,2,4-trimethylbenzene ≥0.10 - ≤2.4			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			
CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥0.10 - ≤2.4	ethylbenzene	≥1.0 - ≤3.2	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			
1,2,4-trimethylbenzene ≥0.10 - ≤2.4 EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3			
ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant 1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			
1,2,4-trimethylbenzene ≥0.10 - ≤2.4 HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 3			
1,2,4-trimethylbenzene ≥0.10 - ≤2.4 FLAMMABLE LIQUIDS - Category 3			
		>0.40 - 10.4	HNOC - Defatting irritant
	1,2,4-trimethylbenzene	≥0.10 - ≤2.4	FLAMMABLE LIQUIDS - Category 3
		1	United States Page: 17/19

Product name SIGMADUR 540 BASE

Section 15. Regulatory information

		ACUTE TOYICITY (inhelation) Cotogony (
		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
bis(1,2,2,6,6-pentamethyl-	<1.0	SKIN SENSITIZATION - Category 1B
4-piperidyl) sebacate	\$1.0	TOXIC TO REPRODUCTION - Category 2
	-1.0	
Hexanoic acid, 2-ethyl-, zinc salt,	<1.0	COMBUSTIBLE DUSTS
basic		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 1B
propylidynetrimethanol	≤1.0	TOXIC TO REPRODUCTION - Category 2
toluene	<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

<u>SARA 313</u>

Supplier

	Chemical name	<u>CAS number</u>	Concentration
r notification	: xylene	1330-20-7	5 - 10
	ethylbenzene	100-41-4	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

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 3 * Flammability : 3 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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

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Health:3Flammability:3Instability:0Date of previous issue:8/17/2023
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United States Page: 18/19

Product name SIGMADUR 540 BASE

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 = 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.