# **SAFETY DATA SHEET**



Date of issue/Date of revision 1 February 2024 Version 4.03

Section 1. Identification	
Product code	: 00202801
Product name	: SIGMADUR 540 BASE
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	Coating. Professional applications, Used by spraying.
Supplier's details	: PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803. Tel +65 68653737
Emergency telephone number (with hours of operation)	: CHEMTREC +(65)-31581349 (CCN 17704)

# Section 2. Hazards identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	SERIOUS ETE DAWAGE/ETE IRRITATION - Calegory T

### **GHS label elements, including precautionary statements**

Hazard pictograms	
Signal word	: Danger
Hazard statements	: Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage.
Precautionary statem	nents
Prevention	<ul> <li>Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. 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.</li> </ul>
Storage	: Not applicable.
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# Section 2. Hazards identification

Disposal

: Not applicable.

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

### CAS number/other identifiers

CAS number : Not applicable.		
EC number : Mixture.		
Ingredient name	%	CAS number
p-butyl acetate	10 - <20	123-86-4
xylene	5 - <10	1330-20-7
2-methylpropan-1-ol	3 - <5	78-83-1
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:	1 - <3	9082-00-2
Solvent naphtha (petroleum), light aromatic	1 - <3	64742-95-6
2-methoxy-1-methylethyl acetate	1 - <3	108-65-6
ethylbenzene	1 - <3	100-41-4
1,2,4-trimethylbenzene	1 - <3	95-63-6
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	0.3 - <1	911674-82-3
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.3 - <1	41556-26-7
Hexanoic acid, 2-ethyl-, zinc salt, basic	0.1 - <0.3	85203-81-2
n-butyl acrylate	0.1 - <0.3	141-32-2
propylidynetrimethanol	0.1 - <0.3	77-99-6
toluene	0.1 - <0.3	108-88-3

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.

SUB codes represent substances without registered CAS Numbers.

# Section 4. First aid measures

# Description of necessary first aid measuresEye contact: Check for and remove any contact lenses. Immediately flush eyes with running<br/>water for at least 15 minutes, keeping eyelids open. Seek immediate medical<br/>attention.Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br/>trained personnel.Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognised skin cleanser. Do NOT use solvents or thinners.Ingestion: If swallowed, seek medical advice immediately and show the container or label.<br/>Keep person warm and at rest. Do NOT induce vomiting.

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Section 4. First aid measures

Most important symptoms/e	ects, acute and delayed
Potential acute health effect	
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/symp	<u>ms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate med	al 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. Firefighting measures

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

# Section 5. Firefighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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 spilt 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 material for cor	tainment 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 the 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 spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour 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.
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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** 

Ingredient name	Exposure limits		
<mark>p</mark> -butyl acetate	Workplace Safety and Health Act (Singapore, 2/2006).		
	PEL (short term): 950 mg/m <sup>3</sup> 15 minutes. PEL (short term): 200 ppm 15 minutes. PEL (long term): 713 mg/m <sup>3</sup> 8 hours. PEL (long term): 150 ppm 8 hours.		
xylene	Workplace Safety and Health Act (Singapore, 2/2006). [Xylene]		
	PEL (short term): 651 mg/m <sup>3</sup> 15 minutes. PEL (short term): 150 ppm 15 minutes. PEL (long term): 434 mg/m <sup>3</sup> 8 hours. PEL (long term): 100 ppm 8 hours.		
2-methylpropan-1-ol	Workplace Safety and Health Act (Singapore, 2/2006).		
	PEL (long term): 152 mg/m <sup>3</sup> 8 hours. PEL (long term): 50 ppm 8 hours.		

# Section 8. Exposure controls/personal protection

ethylbenzene		Workplace Safety and Health Act
		(Singapore, 2/2006).
		PEL (short term): 543 mg/m <sup>3</sup> 15 minutes.
		PEL (short term): 125 ppm 15 minutes.
		PEL (long term): 434 mg/m <sup>3</sup> 8 hours.
		PEL (long term): 100 ppm 8 hours.
1,2,4-trimethylbenzene		Workplace Safety and Health Act
		(Singapore, 2/2006). [Trimethyl benzene]
		PEL (long term): 123 mg/m <sup>3</sup> 8 hours.
		PEL (long term): 25 ppm 8 hours.
	oxyoctadecanoic acid and octadecanoic	ACGIH TLV (United States).
acid and 1,3-phenylenedimeth	nanamine	TWA: 3 mg/m <sup>3</sup> , (Respirable fraction)
n-butyl acrylate		Workplace Safety and Health Act
		(Singapore, 2/2006).
		PEL (long term): 52 mg/m <sup>3</sup> 8 hours.
		PEL (long term): 10 ppm 8 hours.
toluene		Workplace Safety and Health Act
		(Singapore, 2/2006).
		PEL (long term): 188 mg/m <sup>3</sup> 8 hours.
		PEL (long term): 50 ppm 8 hours.
Recommended monitoring procedures		riate monitoring standards. Reference to hods for the determination of hazardous
Appropriate engineering controls	contaminants below any recommend	ols to keep worker exposure to airborne ed or statutory limits. The engineering controls t concentrations below any lower explosive
Environmental exposure	: Emissions from ventilation or work or	ocess equipment should be checked to ensure
controls		environmental protection legislation. In some neering modifications to the process
Individual protection measure	<u>95</u>	
Hygiene measures	eating, smoking and using the lavator Appropriate techniques should be use	oughly after handling chemical products, before ry and at the end of the working period. ed to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and station location.
Eye/face protection	: Chemical splash goggles and face sh	
	goggiot and 1000 bi	
Skin protection		

Product name SIGMADUR 540 BASE

# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: Chloroprene, nitrile rubber Recommended: neoprene, natural rubber (latex), 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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	<ul> <li>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.</li> </ul>
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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Colour	: Various
рН	insoluble in water.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27°C (80.6°F)
Evaporation rate	<ul> <li>Highest known value: 1 (n-butyl acetate) Weighted average: 0.86compared with butyl acetate</li> </ul>
Flammability (solid, gas)	: liquid
Vapour pressure	<ul> <li>         Fighest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.94 kPa (7.05 mm Hg) (at 20°C)     </li> </ul>
Vapour density	: Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.75 (Air = 1)
Relative density	: 1.3

# Section 9. Physical and chemical properties

Solubility(ies) :	Media	Result
	. cold water	Not soluble
Auto-ignition temperature	: 315°C	
Viscosity	: Kinematic (room temper Kinematic (40°C (104°F)	ature): >400 mm²/s (>400 cSt) ): >21 mm²/s (>21 cSt)
Viscosity	: 60 - 100 s (ISO 6mm)	

# 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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising 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
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapour	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	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>10 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
5	LD50 Oral	Rat	8400 mg/kg	-
2-methoxy-1-methylethyl	LC50 Inhalation Vapour	Rat	30 mg/l	4 hours

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# Section 11. Toxicological information

LD50 Dermal	Rabbit	>5 g/kg	-
LD50 Oral	Rat	6190 mg/kg	-
LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
LD50 Dermal	Rabbit	17.8 g/kg	-
LD50 Oral	Rat	3.5 g/kg	-
LC50 Inhalation Vapour	Rat	18000 mg/m <sup>3</sup>	4 hours
LD50 Oral	Rat	5 g/kg	-
LC50 Inhalation Dusts and mists	Rat	>5.08 mg/l	4 hours
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LD50 Oral	Rat	3.125 g/kg	-
LC50 Inhalation Gas.	Rat	2730 ppm	4 hours
LC50 Inhalation Vapour	Rat	1970 ppm	4 hours
LD50 Dermal	Rabbit	2 g/kg	-
LD50 Oral	Rat	900 mg/kg	-
LD50 Dermal	Rabbit	10 g/kg	-
LD50 Oral	Rat	14000 mg/kg	-
LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
LD50 Dermal	Rabbit	8.39 g/kg	-
LD50 Oral	Rat	5580 mg/kg	-
	LD50 Oral LC50 Inhalation Vapour LD50 Dermal LD50 Oral LC50 Inhalation Vapour LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Gas. LC50 Inhalation Vapour LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral	LD50 OralRatLC50 Inhalation VapourRatLD50 DermalRabbitLD50 OralRatLC50 Inhalation VapourRatLD50 OralRatLC50 Inhalation Dusts and mistsRatLD50 OralRatLC50 Inhalation Dusts and mistsRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 OralRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 DermalRat	LD50 OralRat6190 mg/kgLC50 Inhalation VapourRat17.8 mg/lLD50 DermalRabbit17.8 g/kgLD50 OralRat3.5 g/kgLC50 Inhalation VapourRat18000 mg/m³LD50 OralRat5 g/kgLC50 Inhalation Dusts and mistsRat5 g/kgLC50 Inhalation Gas.Rat3.125 g/kgLC50 Inhalation VapourRat1970 ppmLD50 OralRat1970 ppmLD50 OralRat1900 mg/kgLD50 OralRat1900 mg/kgLD50 OralRat1900 mg/kgLD50 DermalRat1900 mg/kgLD50 OralRat1900 ppmLD50 OralRat1900 mg/kgLD50 OralRat10 g/kgLD50 OralRat10 g/kgLD50 OralRat14000 mg/kgLD50 OralRat14000 mg/kgLD50 OralRat14000 mg/kgLD50 OralRat14000 mg/kgLD50 OralRat14000 mg/kgLD50 DermalRat14000 mg/kgLD50 DermalRat14000 mg/kgLD50 DermalRat49 g/m³LD50 DermalRat49 g/m³

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

### Irritation/Corrosion

Product/ingredient nar	ne	Result	Species	Score	Exposure	Observation
<b>x</b> ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				·		-
Skin	:	There are no data available	e on the mixtur	e itself.		
Eyes	1	There are no data available	e on the mixtur	e itself.		
Respiratory	1	There are no data available	e on the mixtur	e itself.		
Sensitisation						
Conclusion/Summary						
Skin	:	There are no data available	e on the mixtur	e itself.		
Respiratory	:	There are no data available	e on the mixtur	e itself.		
<u>Mutagenicity</u>						
Conclusion/Summary	1	There are no data availabl	e on the mixtu	re itself.		
Carcinogenicity						
Conclusion/Summary	:	There are no data availabl	e on the mixtu	re itself.		
Reproductive toxicity						
Conclusion/Summary	:	There are no data availabl	e on the mixtu	re itself.		
Feratogenicity						
Conclusion/Summary		There are no data availabl		· · · · · · · · · · · · · · · · · · ·		

# Section 11. Toxicological information

## 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
n-butyl acrylate	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 -

### Aspiration hazard

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

# Information on likely routes : Not available. of exposure

### 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.	

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

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Section 11. Toxicological information

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Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effe	cts as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

### Numerical measures of toxicity

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### Acute toxicity estimates

Route	ATE value	
Øral	15007.01 mg/kg	
Dermal	15563.07 mg/kg	
Inhalation (vapours)	69.98 mg/l	
Inhalation (dusts and mists)	8.41 mg/l	

### Other information

Prolonged or repeated contact may dry skin and cause irritation. 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 vapour/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.

Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>p</b> -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 -
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Acute LC50 >100 mg/l	Fish	96 hours
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

Conclusion/Summary

: There are no data available on the mixture itself.

### Persistence/degradability

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

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

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

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
p-butyl acetate	2.3	-	Low
xylene	3.12	7.4 to 18.5	Low
2-methylpropan-1-ol	1	-	Low
2-methoxy-1-methylethyl	1.2	-	Low
acetate			
ethylbenzene	3.6	79.43	Low
1,2,4-trimethylbenzene	3.63	120.23	Low
n-butyl acrylate	2.38	-	Low
propylidynetrimethanol	-0.47	-	Low
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# Section 12. Ecological information

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toluene	2.73	8.32	Low	
<u>Mobility in soil</u>				
Soil/water partition	<ul> <li>Not available</li> </ul>			

### coefficient (Koc)

: Not available.

### Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

- Disposal methods
- : The generation of waste should be avoided or minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

### **Additional information**

UN

: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.

IMDG

This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2,3,2,5.

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Product name SIGMADUR 540 BASE

# Section 14. Transport information

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

Singapore - hazardous chemicals under government control

None.

### International regulations

Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

# Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 1 February 2024
Date of previous issue	: 8/17/2023
Version	: 4.03
Prepared by	: EHS
Key to abbreviations	<ul> <li>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) UN = United Nations</li> </ul>

Indicates information that has changed from previously issued version.

### Notice to reader

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

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