# **SAFETY DATA SHEET**

PPG

Version5.01

Date of issue/Date of revision 13 August 2024

## Section 1. Identification

Product code	: 00392463
Product name	: SIGMADUR 550 BASE BASE Z(D)
CAS number	: Not applicable.
EC number	: Mixture.
Product type	: Liquid.
Relevant identified uses o	f the substance or mixture and uses advised against
Product use	Coating. Professional applications, Used by spraying.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Supplier's details	: PPG Yung Chi Coatings Co. Ltd Lot 219, Amata Street, Long Binh IZ Bien Hoa City, Dong Nai Province Vietnam Tel : +84 61 3936121/22
Emergency telephone number (with hours of operation)	: CHEMTREC +(84)-444581938 (CCN 17704)

## Section 2. Hazards identification

<b>Classification of the</b>	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	AQUATIC TOXICITY (ACUTE) - Category 3
	AQUATIC TOXICITY (CHRONIC) - Category 3
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 25.5%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 25.5%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 24.5%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
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Product name SIGMADUR 550 BASE BASE Z(D)

## Section 2. Hazards identification

Hazard statements	:	Flammable liquid and vapor. May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	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 only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	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: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	1	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Routes of entry	:	Not available.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

CAS number	÷	Not applicable.
EC number	1	Mixture.

Ingredient name	CAS number	Chemical formula	%	
xylene	1330-20-7	C8-H10	≥25 - ≤36	
n-butyl acetate	123-86-4	C6-H12-O2	≤10	
ethylbenzene	100-41-4	C8-H10	≤6.5	
Talc , not containing asbestiform fibres	14807-96-6	H2-03-Si.3/4Mg	≤10	
Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-	55349-01-4	C42H84N2O4	≤3	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	C30H56N2O4	<1	

There are no 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.

SUB codes represent substances without registered CAS Numbers.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

iry first aid measures
<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
: 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 person warm and at rest. Do NOT induce vomiting.
oms/effects, acute and delayed
effects
: Causes serious eye irritation.
: Harmful if inhaled. May cause respiratory irritation.

- Skin contact: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.<br/>May cause an allergic skin reaction.
- 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
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

### 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 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. 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment 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.

## Section 6. Accidental release measures

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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 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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

ngredient name	Exposure limits
<b>Ky</b> lene	Ministry of Health (Viet Nam, 6/2019). [xylene] STEL: 300 mg/m <sup>3</sup> 15 minutes. TWA: 100 mg/m <sup>3</sup> 8 hours.
n-butyl acetate	Ministry of Health (Viet Nam, 6/2019). STEL: 700 mg/m <sup>3</sup> 15 minutes. TWA: 500 mg/m <sup>3</sup> 8 hours.
ethylbenzene	ACGIH TLV (United States, 7/2023).

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## Section 8. Exposure controls/personal protection

Talc , not containing asbestif	orn	n fibres	Ototoxicant. TWA: 20 ppm 8 hours. Ministry of Health (Viet Nam, 6/2019). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: inhalable dust TWA: 1 mg/m <sup>3</sup> 8 hours. Form: respirable dust TWA: 2 mg/m <sup>3</sup> 8 hours. Form: total dust concentration
Recommended monitoring procedures	:		riate monitoring standards. Reference to nods for the determination of hazardous
Appropriate engineering controls	:	contaminants below any recommende	ls to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls	:		
Individual protection measur	res		
Hygiene measures	:	eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. ed to remove potentially contaminated clothing. of be allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.
Eye/face protection	:	Chemical splash goggles.	
Skin protection			
Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It athrough for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately
Gloves	:	butyl rubber	
Body protection	:	being performed and the risks involve	
Other skin protection	:		nal skin protection measures should be formed and the risks involved and should be ing this product.

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## Section 8. Exposure controls/personal protection

hazaro workei approp	ator selection must be based on known or anticipated exposure levels, the ls of the product and the safe working limits of the selected respirator. If rs are exposed to concentrations above the exposure limit, they must use priate, certified respirators. Use a properly fitted, air-purifying or air-fed ator complying with an approved standard if a risk assessment indicates this is sary.
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## Section 9. Physical and chemical properties

<u>Appearance</u>			
Physical state	:	Liquid.	
Color	1	Various	
Odor	1	Characteristic.	
Odor threshold	4	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 25°C (77°F)	
Evaporation rate	1	Not available.	
Flammability (solid, gas)	1	Not available.	
Lower and upper explosive (flammable) limits	:	Greatest known range: Lo	wer: 1.4% Upper: 7.6% (n-butyl acetate)
Vapor pressure	:	Not available.	
Vapor density	1	Not available.	
Relative density	:	1.16	
Solubility(ies)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Decomposition temperature	1	Not available.	
Viscosity	1	Kinematic (room temperat Kinematic (40°C): >21 mn	

## 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: oxidizing agents, strong alkalis, strong acids.
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## Section 10. Stability and reactivity

# Hazardous decomposition<br/>products: Depending on conditions, decomposition products may include the following<br/>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
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	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-

#### Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary					
Skin	: There are no data avai	lable on the mi	xture itself.		
Eyes	: There are no data avai	lable on the mi	xture itself.		
Respiratory	: There are no data avai	lable on the mi	xture itself.		
Sensitization					
Skin	: There are no data avai	lable on the mi	xture itself.		
Respiratory	: There are no data avai	lable on the mi	xture itself.		
Mutagenicity					
Conclusion/Summary	: There are no data avai	lable on the mi	xture itself.		
Carcinogenicity					
Conclusion/Summary	: There are no data avai	lable on the mi	xture itself.		
Reproductive toxicity					
Conclusion/Summary	: There are no data avai	lable on the mi	xture itself.		
Teratogenicity					
Conclusion/Summary	: There are no data avai	lable on the mi	xture itself.		
Specific target organ toxic	ity (single exposure)				
News		Catagory	Dout		

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

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## Section 11. Toxicological information

Name		Category	Route of exposure	Target organs
ethylbenzene		Category 2	-	hearing organs
Aspiration hazard				
Name			Result	
xylene ethylbenzene				ZARD - Category 1 ZARD - Category 1
nformation on the likely outes of exposure	: Not available.			
outes of exposure Potential acute health effec	cts	inite ti co		
outes of exposure Potential acute health effect Eye contact	c <u>ts</u> : Causes serious e		en irritation	
outes of exposure <u>Potential acute health effec</u> Eye contact Inhalation	cts : Causes serious e : Harmful if inhaled	I. May cause respirat	•	
outes of exposure Potential acute health effect Eye contact	cts : Causes serious e : Harmful if inhaled : May be harmful ir	I. May cause respirat	•	<ol> <li>Defatting to the skin</li> </ol>

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short 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.
<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.
Potential chronic health eff	<u>ects</u>
General	<ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
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## Section 11. Toxicological information

**Mutagenicity** 

- : No known significant effects or critical hazards.
- **Reproductive toxicity**
- : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Øral	9080.07 mg/kg
Dermal	4076.2 mg/kg
Inhalation (vapors)	23.76 mg/l
Inhalation (dusts and mists)	3.05 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 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.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D		adily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life	e	Photolysis		Biodeg	radability
xylene n-butyl acetate ethylbenzene			- - -		Readily Readily Readily	/

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. **Disposal methods** 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.

## 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	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>
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

#### Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

### Circular no. 05/1999/TT-BYT

Ingredient name	Category	Notes
benzene	Category 1	
toluene	Category 2	
xylene	Category 2	
1,4-dioxane	Category 2	
chloromethane	Category 2	
Formaldehyde, solution	Category 2	
ethylene oxide	Category 2	

### Toxic classification (TCVN : 4

3164-79)

### International regulations

#### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 16. Other information

#### **History**

Date of issue/Date of revision	: 13 August 2024
Date of previous issue	: 8/12/2024
Version	: 5.01
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 = 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) UN = United Nations</li> </ul>
References	: Not available.

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.