# SAFETY DATA SHEET



Date of issue 3/20/2021 (month/day/year)

Version 6

### Section 1. Chemical product and company identification

A. Product name		: SIGMADUR 550 BASE CNC 104		
	Product code	1	00375486	

### B. Relevant identified uses of the substance or mixture and uses advised against

	Product use Use of the substance/ mixture		Professional applications, Used by spraying. Coating.
	Uses advised against	:	Product is not intended, labelled or packaged for consumer use.
C.	Supplier's information	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

### Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
A. Hazara classification	
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in a	according with the Industrial Sofety and Health Act and the Chamical Control Act

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements

**Symbol** 



Signal word

: Danger

Date of issue 3/20/2021 (month/day/year)

Product name SIGMADUR 550 BASE CNC 1041

### Section 2. Hazards identification

Hazard statements	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in classification	: <b>F</b> rolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### CAS number/other identifiers

**CAS** number

: Not applicable.

Chemical name	Common name	Identifiers	%
<b>X</b> ylene	XYLENES	CAS: 1330-20-7	20 - <30
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	5 - <10
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	1 - <5
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
Octadecanamide, N,N'-1,6-hexanediylbis	N,N-1,6-HEXANEDIYLBIS	CAS: 55349-01-4	1 - <5
[12-hydroxy-	(12-HYDROXY-OCTADECANEIMIDE)		
29H,31H-phthalocyaninato(2-)-N29,N30,	COPPER PHTALOCYANINE	CAS: 147-14-8	1 - <5
		Korea (GHS)	Page: 2/16

## Section 3. Composition/information on ingredients

N31,N32 copper			
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
aromatic	LIGHT AROMATIC		
2-butoxyethanol	2-BUTOXY ETHANOL	CAS: 111-76-2	0.1 - <1
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
sebacate	SEBACATE		
cyclohexanone	CYCLOHEXANONE	CAS: 108-94-1	0.1 - <1
2-Propenoicacid,2-ethylhexylester,	2-Propenoicacid,2-ethylhexylester,	CAS: 398475-96-2	0.1 - <1
reactionproductswithethylenediamine-	reactionproductswithethylenediamine-		
ethyleniminepolymer,compds.	ethyleniminepolymer,compds.		
withpolyethylene-	withpolyethylene-		
polypropyleneglycolmono-	polypropyleneglycolmono-		
Buetherphosphate	Buetherphosphate		

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

Α.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.	
В.	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.	
C.	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.	
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.	
Е.	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	1	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	1	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
Specific hazards arising from the chemical	:	Flammable liquid and vapor. 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 equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire-fighting procedures	:	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.
	Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous thermal decomposition products Special equipment for fire-fighting	Suitable extinguishing : media Unsuitable : extinguishing media Specific hazards arising : from the chemical Hazardous thermal decomposition products Special equipment for : fire-fighting

### Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	:	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.
B. Environmental	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways,

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.

#### C. 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<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal<br/>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

A. Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored handling and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. 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. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**B.** Conditions for safe : 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 storage, including any incompatibilities 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

#### A. Occupational exposure limits

<b>X</b> ylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).

Korea (GHS) Page: 5/16

## Section 8. Exposure controls/personal protection

	•		· · · · ·	
	Talc , not containing asbes	stife	orm fibres	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. ACGIH TLV (United States, 3/2019). TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	titanium dioxide			Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	2-butoxyethanol			with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. TWA: 20 ppm 8 hours.
	cyclohexanone			Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes.
	Recommended monitoring procedures	:		ay be required to determine the effectiveness ures and/or the necessity to use respiratory Id be made to appropriate monitoring ance documents for methods for the
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls	:		
С.	Personal protective equip	m	ent	
	Respiratory protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	a known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
	Eye protection		Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	ers. In the case of mixtures, consisting of
	Gloves	:	butyl rubber	

Korea (GHS) Page: 6/16

### Section 8. Exposure controls/personal protection

Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## **Section 9. Physical and chemical properties**

Α.	Appearance		
	Physical state	:	Liquid.
	Color	:	Not available.
В.	Odor	:	Characteristic.
С.	Odor threshold	:	Not available.
D.	рН	1	Not applicable.
Ε.	Melting/freezing point	1	Not available.
F.	Boiling point/boiling range	:	>37.78°C (>100°F)
G.	Flash point	:	Closed cup: 25°C (77°F)
н.	Evaporation rate	÷	Not available.
Т.	Flammability (solid, gas)	:	Not available.
J.	Lower and upper explosive (flammable) limits	:	Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate)
K.	Vapor pressure	:	Not available.
L.	Solubility	:	Insoluble in the following materials: cold water.
	Solubility in water	:	Not available.
Μ.	Vapor density	1	Not available.
Ν.	Relative density	1	1.2
0.	Partition coefficient: n- octanol/water	:	Not available.
Ρ.	Auto-ignition temperature	:	Not available.
Q.	Decomposition temperature	:	Not available.
R.	Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
S.	Molecular weight	;	Not applicable.

Date of issue 3/20/2021 (month/day/year)

Version 6

Product name SIGMADUR 550 BASE CNC 1041

## Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	-	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

## Section 11. Toxicological information

A. Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>zts</u>
Inhalation :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion :	Can cause central nervous system (CNS) depression.
Skin contact :	$\overline{\mathcal{C}}$ auses skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact :	Causes serious eye irritation.
Over-exposure signs/symp	<u>itoms</u>
Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Ingestion :	No specific data.
Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
B. Health hazards	
Acute toxicity	

Acute toxicity

Korea (GHS) Page: 8/16

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
<b>⋉</b> ylene	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	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
29H,31H-phthalocyaninato(2-)-N29, N30,N31,N32 copper	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5.1 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rabbit	1060 mg/kg	-
,	LD50 Oral	Rat - Male	1480 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
,	LC50 Inhalation Vapor	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1.54 g/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	;	Species	Score	Exposure	Observation
<b>X</b> ylene	Skin - Modera	te irritant F	Rabbit	-	24 hours 500 mg	-
2-butoxyethanol	Skin - Modera Eyes - Irritant		Rabbit Rabbit	-	4 hours 24 hours	28 days 21 days
Conclusion/Summary					·	
Skin	: There are no dat	a available on t	he mixture its	elf.		
Eyes	: There are no data available on the mixture itself.					
Respiratory	: There are no data available on the mixture itself.					
<u>Sensitization</u> <u>Conclusion/Summary</u>						
Skin	: There are no data	available on th	e mixture itse	lf.		
Respiratory	: There are no data	available on th	e mixture itse	lf.		
<u>Mutagenicity</u> Conclusion/Summary	: There are no data	a available on th	ne mixture itse	elf.		

### Section 11. Toxicological information

#### **Carcinogenicity**

Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: 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	Classification	Route of exposure	Target organs
<b>X</b> ylene	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
2-Propenoicacid,2-ethylhexylester, reactionproductswithethylenediamine-ethyleniminepolymer, compds.withpolyethylene-polypropyleneglycolmono- Buetherphosphate	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
▼ylene	Category 1		central nervous system (CNS), kidneys, liver

#### **Aspiration hazard**

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

#### Potential chronic health effects

General	: Zauses damage to organs through prolonged or repeated exposure. 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.
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	: No known significant effects or critical hazards.

#### **Additional information**

Product name SIGMADUR 550 BASE CNC 1041

### Section 11. Toxicological 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.

Chemical name	Common name	CAS #	GHS Classification
₩ylene	XYLENES	1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
n-butyl acetate	N-BUTYL ACETATE	123-86-4	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Talc , not containing asbestiform fibres	Talc, non-asbestos form	14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	108-65-6	FLAMMÁBLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY
			(SINGLE EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide Octadecanamide, N, N'-1,6-hexanediylbis [12-hydroxy-	TITANIUM DIOXIDE N,N-1,6-HEXANEDIYLBIS (12-HYDROXY- OCTADECANEIMIDE)	13463-67-7 55349-01-4	CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 1
29H,31H-phthalocyaninato	COPPER	147-14-8	AQUATIC HAZARD (LONG-TERM) - Category 4 Not classified.
(2-)-N29,N30,N31,N32 copper	PHTALOCYANINE	147-14-0	Not classified.
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	64742-95-6	FLAMMABLE LIQUIDS - Category 3
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) -
			Korea (GHS) Page: 11/16

Product code 00375486 Product name SIGMADUR 5		e of issue 3/2	0/2021 (month/day/year) Version 6		
Section 11. Toxicological information					
2-butoxyethanol	2-BUTOXY ETHANOL	111-76-2	Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 CARCINOGENICITY - Category 2		
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	BIS (PENTAMETHYLPIPERIDYL) SEBACATE	41556-26-7	SKIN SENSITIZATION - Category 1		
			AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1		
cyclohexanone	CYCLOHEXANONE	108-94-1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 GERM CELL MUTAGENICITY - Category CARCINOGENICITY - Category 2		
2-Propenoicacid, 2-ethylhexylester, reactionproductswithethylenediamine- ethyleniminepolymer, compds.withpolyethylene- polypropyleneglycolmono- Buetherphosphate	2-Propenoicacid, 2-ethylhexylester, reactionproductswithethylenediamine- ethyleniminepolymer, compds.withpolyethylene- polypropyleneglycolmono- Buetherphosphate	398475-96-2	SKIN CORROSION/IRRITATION - Category 2		
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1		

## Section 12. Ecological information

### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
<mark>p-</mark> butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	Acute LC50 >100 mg/l	Fish	96 hours
		Korea (GHS)	Page: 12/16

Product code 00375486 Product name SIGMADUR 550		f issue 3/20/2021 (month/day/year)	Version 6	
Section 12. Ecolog	ical information			
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours	
2-butoxyethanol	Acute LC50 1474 mg/l Chronic NOEC >100 mg/l	Fish Fish	96 hours 21 days	

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
p-butyl acetate	TEPA and 83 % - Rea OECD 301D		adily - 28 days	-		-
2-methoxy-1-methylethyl acetate	- 83 % - Rea		adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Vene n-butyl acetate ethylbenzene 2-methoxy-1-methylethyl acetate	- - - -		- - -		Readily Readily Readily Readily	,
2-butoxyethanol	-		-		Readily	,

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.16	7.4 to 18.5	low
n-butyl acetate	1.78	-	low
ethylbenzene	3.15	79.43	low
2-methoxy-1-methylethyl acetate	0.56	-	low
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	6.6	-	high
copper			
2-butoxyethanol	0.81	-	low
cyclohexanone	0.81	-	low

#### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

### Section 13. Disposal considerations

A. 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.

Korea (GHS) Page: 13/16

### Section 13. Disposal considerations

- **B.** Disposal precautions
- : 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
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

UN: None identified.IMDG: None identified.IATA: None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

### A. <u>Regulation according to ISHA</u>

ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.
ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.

### Section 15. Regulatory information

	iteguie						
Article 2 of Youth Act on Substance to Youth		:	It is not allowed to sell to persons under the age of 19.				
Exposure Lim	Exposure Limits of Chemical Substances and Physical Factors						
▼ylene n-butyl acetate ethylbenzene Talc , not con titanium dioxid	n-butyl acetate ethylbenzene Talc , not containing asbestiform fibres titanium dioxide 2-butoxyethanol						
ISHA Enforcer Annex 19 (Exp standards esta for harmful fac	osure ablished	:	The following components are listed: cyclohexanone				
ISHA Enforcer Annex 21 (Har factors subjec Environment Measurement)	mful t to Work	:	The following components are listed: xylene, n-butyl acetate, ethyl benzene, talc; soapstone, titanium dioxide				
ISHA Enforcer Annex 22 (Har Factors Subje Special Health up)	mful ct to	:	The following components are listed: Xylene, Ethyl benzene				
Standard of In Safety and He Annex 12 (Haz substances su control)	alth ardous	:	The following components are listed: xylene, n-butyl acetate, ethyl benzene, copper and its compounds, titanium dioxide				
B. <u>Regulation ac</u>	B. <u>Regulation according to Chemicals Control Act</u>						
CCA Article 11	(TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, Ethylbenzene, Copper and its compounds				
CCA Article 18 Prohibited (K- Article 27)		:	None of the components are listed.				
CCA Article 19 to authorizatio Reach Article	on (K-	:	None of the components are listed.				
CCA Article 20 Restricted (K- Article 27)		:	None of the components are listed.				
CCA Article 20 Chemicals (K- Article 20)		:	Not applicable				
Korea invento	ry	:	All components are listed or exempted.				

Date of issue 3/20/2021 (month/day/year)

Version 6

Product name SIGMADUR 550 BASE CNC 1041

### Section 15. Regulatory information

	CCA Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.	
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited	
D.	Wastes regulation	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Ε.	Regulation according to	to other foreign laws		
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).	

### Section 16. Other information

Α.	References	<ul> <li>Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.</li> </ul>
В.	Date of issue/Date of revision	: 3/20/2021
С.	Version	: 6
	Prepared by	: EHS
D.	Other	

#### D. Other

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.