# SAFETY DATA SHEET



Date of issue 1/9/2024 (month/day/year)

Version 8.01

**Symbol** 

Signal word

### Section 1. Chemical product and company identification

A. Product name	: SIGMADUR 1800 BASE CNC-1098
Product code	: 00345922

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

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

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is closelfied in a	and the swith the inductrial Seferic and Liestin Act and the Chemical 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

: Warning	

Hazard statements	: H226 - Flammable liquid and vapor.
	H336 - May cause drowsiness or dizziness.
	H351 - Suspected of causing cancer.
	H373 - May cause damage to organs through prolonged or repeated exposure.
	(central nervous system (CNS), kidneys, liver)
	H412 - Harmful to aquatic life with long lasting effects.

Korea (GHS) Page: 1/15

Date of issue 1/9/2024 (month/day/year)

Version 8.01

Product name SIGMADUR 1800 BASE CNC-1098

### Section 2. Hazards identification

Precautionary statements	S
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor.</li> </ul>
Response	<ul> <li>₱308 + 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> </ul>
Storage	<ul> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: <b>P</b> rolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

#### **CAS number/other identifiers**

#### **CAS number**

С

: Not applicable.

Chemical name	Common name	Identifiers	%
p-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	5 - <10
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	1 - <5
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
12-hydroxyoctadecanoic acid reaction products with	12-hydroxyoctadecanoic acid, reaction products with	CAS: 220926-97-6	1 - <5
1,3-benzenedimethanamine and	1,3-benzenedimethanamine and		
hexamethylenediamine	hexamethylenediamine		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	0.1 - <1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	METHYL-(1,2,2,6,6-PENTAMETHYL- 4-PIPERDIYL) SEBACATE	CAS: 82919-37-7	0.1 - <1

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.

### Product name SIGMADUR 1800 BASE CNC-1098

Se	ction 4. First aid	l	measures
A. E	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.
B. S	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. I	nhalation	:	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. I	ngestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
E. N	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.
5	Specific treatments	1	No specific treatment.
F	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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

L		×		-
-	Α.	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.
	В.	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
	C.	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.

Korea (GHS) Page: 3/15

### 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 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	СС	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Α.	Precautions for safe handling	: Fut on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.
В.	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.

Korea (GHS) Page: 4/15

Product name SIGMADUR 1800 BASE CNC-1098

## Section 8. Exposure controls/personal protection

### A. Occupational exposure limits

Ingredient name		Exposure limits
-butyl acetate		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		STEL: 200 ppm 15 minutes.
		TWA: 150 ppm 8 hours.
titanium dioxide		Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
		with less than 1% of free SiO2
Xylene		Ministry of Employment and Labor
		(Republic of Korea, 1/2020). [Xylene (all
		isomers)]
		STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
Talc , not containing asbe	stiform fibres	Ministry of Employment and Labor
		(Republic of Korea, 1/2020).
		TWA: 2 mg/m³ 8 hours. Form: fibers
1,2,4-trimethylbenzene		Ministry of Employment and Labor
		(Republic of Korea, 1/2020). [Trimethyl
		benzene (mixed isomers)]
		TWA: 25 ppm 8 hours.
12-hydroxyoctadecanoic a	cid reaction products with	ACGIH TLV (United States).
	ne and hexamethylenediamine	TWA: 10 mg/m <sup>3</sup> Form: Inhalable particle
	,	TWA: 3 mg/m <sup>3</sup> , (inhalable dust) Form:
		Respirable particle
ethylbenzene		Ministry of Employment and Labor
5		(Republic of Korea, 1/2020).
1		STEL: 125 ppm 15 minutes.
		STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
Recommended	: Reference should be made to app	TWA: 100 ppm 8 hours.
Recommended monitoring procedures		TWA: 100 ppm 8 hours. opriate monitoring standards. Reference to
Recommended monitoring procedures	national guidance documents for n	TWA: 100 ppm 8 hours.
		TWA: 100 ppm 8 hours. opriate monitoring standards. Reference to
monitoring procedures	national guidance documents for n substances will also be required.	TWA: 100 ppm 8 hours. ropriate monitoring standards. Reference to nethods for the determination of hazardous
	<ul><li>national guidance documents for n substances will also be required.</li><li>: Use only with adequate ventilation.</li></ul>	TWA: 100 ppm 8 hours. opriate monitoring standards. Reference to nethods for the determination of hazardous Use process enclosures, local exhaust
monitoring procedures Appropriate engineering	<ul> <li>national guidance documents for n substances will also be required.</li> <li>Use only with adequate ventilation ventilation or other engineering cor</li> </ul>	TWA: 100 ppm 8 hours. Two priate monitoring standards. Reference to nethods for the determination of hazardous Use process enclosures, local exhaust ntrols to keep worker exposure to airborne
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Product name SIGMADUR 1800 BASE CNC-1098

### Section 8. Exposure controls/personal protection

Eye protection	: Safety glasses with side shields.
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	<ul> <li>For prolonged or repeated handling, use the following type of gloves:</li> <li>May be used: Chloroprene, nitrile rubber</li> <li>Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), butyl rubber, Viton®</li> </ul>
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance								
	Physical state	:	Liquid.						
	Color	:	Blue.						
В.	Odor	:	Not available.						
С.	Odor threshold	:	Not available.						
D.	рН	:	Not applicable.						
Ε.	Melting/freezing point	:	Not available.						
F.	Boiling point/boiling range	1	>37.78°C (>100°F)						
G.	Flash point	:	Closed cup: 27°C (8	0.6°F)					
н.	Evaporation rate	:	Not available.						
ι.	Flammability (solid, gas)	:	Not available.						
J.	Lower and upper explosive (flammable) limits	-	Greatest known rang	ge: Lower:	0.9% (	Upper: 7.9% (	dimethyl	glutarate)	)
K.	Vapor pressure	:		Vapo	r Press	ure at 20°C	Vap	oor press	ure at 50°C
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
			p-butyl acetate	11.25096	1.5	DIN EN 13016-2			

Korea (GHS) Page: 6/15

Version 8.01

Product name SIGMADUR 1800 BASE CNC-1098

## Section 9. Physical and chemical properties

L. Solubility(ies)		Media	Result				
2. Colubility(100)		old water	Not soluble				
Solubility in wat	er :	Not available.					
Vapor density M.	:	Not available.					
N. Relative density	:	1.2	2				
<ul> <li>Partition coeffic</li> <li>octanol/water</li> </ul>	ient: n- :	Not applicable.					
P. Auto-ignition temperature	:						
		Ingredient name	°C	°F	Method		
		Solvent naphtha (petroleum), lig aromatic	ght 280 to 470	536 to 878			
Q. temperature	:	Not available.					
Viscosity R.	:	Kinematic (40°C (104°F)):	>21 mm²/s (>21	cSt)			
Flow time (ISO 2	2431) :	Not available.					
S. Molecular weigh	it :	Not applicable.					

## Section 10. Stability and reactivity

			-
Α.	Chemical stability	1	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
1			

## Section 11. Toxicological information

routes of exposure
Potential acute health effects
Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion : Can cause central nervous system (CNS) depression.
Skin contact : Defatting to the skin. May cause skin dryness and irritation.
<b>Eye contact</b> : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

## Section 11. Toxicological information

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 dryness cracking
Eye contact	: No specific data.

#### **B. Health hazards**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		J J	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
,	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), light	LD50 Dermal	Rabbit	3.48 g/kg	-
aromatic			0.0	
	LD50 Oral	Rat	8400 mg/kg	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
, , ,	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/kg	-
12-hydroxyoctadecanoic acid reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with	mists		Ŭ	
1,3-benzenedimethanamine and				
hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl 1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	
4-piperidyl sebacate		ιται	5.125 g/kg	_

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

#### Irritation/Corrosion

## Section 11. Toxicological information

		0				
Product/ingredient name		Result	Species	Score	Exposure	Observation
₩ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•			
Skin	: T	here are no data available o	n the mixture if	tself.		
Eyes	: T	here are no data available o	n the mixture if	tself.		
Respiratory	: Т	here are no data available or	n the mixture if	tself.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	•	ere are no data available on ere are no data available on				
Mutagenicity Conclusion/Summary	: Tł	nere are no data available on	the mixture its	self.		
Carcinogenicity Conclusion/Summary	: Т	here are no data available or	n the mixture it	self.		
Reproductive toxicity Conclusion/Summary	: Т	here are no data available o	n the mixture i	tself.		
Teratogenicity Conclusion/Summary	: т	here are no data available o	n the mixture i	tself.		

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

Name	Classification	Route of exposure	Target organs
<b>p</b> -butyl acetate	Category 3	-	Narcotic effects
Xylene	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
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

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

Name	Classification	Route of exposure	Target organs
Kylene	Category 1		central nervous system (CNS), kidneys, liver
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	-	-

#### **Aspiration hazard**

Korea (GHS) Page: 9/15

### Section 11. Toxicological information

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

#### Potential chronic health effects

General	May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.		
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		
Mutagenicity Reproductive toxicity	No known significant effects or critical hazards. No known significant effects or critical hazards.		
Reproductive toxicity			

#### **Additional 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	Identifiers	GHS Classification
p-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
	1	Korea (GHS) Page: 10/15

Product name SIGMADUR 1800 BASE CNC-1098

## Section 11. Toxicological information

12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	CAS: 220926-97-6	Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 ACUTE TOXICITY (oral) - Category 4
ethylbenzene	CAS: 100-41-4	ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN SENSITIZATION - Category 1B
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	CAS: 82919-37-7	TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 SKIN SENSITIZATION - Category 1B
SEDACALE		TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

## Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
<b>p</b> -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	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
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-

#### B. <u>Persistence and degradability</u>

### Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Rea	adily - 28 days	-		-
2-methoxy-1-methylethyl acetate	-	83 % - Rea	adily - 28 days	-		-
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD 301D Ready Biodegradability - Closed Bottle Test	9 % - Not r	eadily - 29 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
p-butyl acetate Xylene 2-methoxy-1-methylethyl acetate	-		-		Readily Readily Readily	,
ethylbenzene	-		-		Readily	,

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	Low
Xylene	3.12	7.4 to 18.5	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
1,2,4-trimethylbenzene 12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.63 >6	120.23 -	Low High
ethylbenzene	3.6	79.43	Low

#### D. Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

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.

### 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	
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. Regulation according to ISHA

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.

Date of issue 1/9/2024 (month/day/year)

Product name SIGMADUR 1800 BASE CNC-1098

## Section 15. Regulatory information

		_					
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.				
	Exposure Limits of Chemical Substances and Physical Factors						
	The following components have an OEL: -butyl acetate titanium dioxide Xylene Talc , not containing asbestiform fibres 1,2,4-trimethylbenzene 12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine ethylbenzene						
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.				
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: n-butyl acetate, titanium dioxide, xylene, talc / soapstone, ethyl benzene				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene				
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: n-butyl acetate, titanium dioxide, xylene, ethyl benzene				
В.	Regulation according to	<u>Ch</u>	emicals Control Act				
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Xylene including o-,m-,p- isomer, Ethylbenzene				
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.				
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.				
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.				
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable				
	Korea inventory	1	🕅 components are listed or exempted.				
	Article 39 (Accident Precaution Chemicals)	:	None of the components are listed.				

Date of issue 1/9/2024 (month/day/year)

Product name SIGMADUR 1800 BASE CNC-1098

### Section 15. Regulatory information

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	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
E. <u>Regulation according to other foreign laws</u>				
	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

A.	References	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.	
В.	Date of issue/Date of revision	1/9/2024	
С.	Version	8.01	
	Prepared by	EHS	

#### 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.