## **SAFETY DATA SHEET**



Date of issue 1/15/2025 (month/day/year)

Version 9.01

## Section 1. Chemical product and company identification

A. Product name : SIGMADUR 1800 BASE RAL7035/CNC-5022

Product code : 00311116

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

**Product use** : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

**Uses advised against**: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

**Email Address** 

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

**Emergency telephone** 

number:

## 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 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 : 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.

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### Section 2. Hazards identification

#### **Precautionary statements**

**Prevention** 

: 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.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P240 - Ground and bond container and receiving equipment.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

**Response** : P370 + P378 - In case of fire: Never use water to extinguish.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

**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

not result in classification

: Prolonged 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	%
intanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 - <30
n-butyl acetate	N-BUTYL ACETATE	EC: 236-675-5 CAS: 123-86-4 EC: 204-658-1	10 -<20
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6 EC: 238-877-9	1 - <5
Solvent naphtha (petroleum), light aromatic	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	1 - <5
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and	12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	EC: 265-199-0 CAS: 220926-97-6	1 - <5
hexamethylenediamine 1,2,4-trimethylbenzene	hexamethylenediamine 1,2,4-TRIMETHYL BENZENE	EC: 432-840-2 CAS: 95-63-6	1 - <5
ethylbenzene	ETHYLBENZENE	EC: 202-436-9 CAS: 100-41-4 EC: 202-849-4	1 - <5

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Product code 00311116 Date of issue 1/15/2025 (month/day/year) Version 9.01 Product name SIGMADUR 1800 BASE RAL7035/CNC-5022 Section 3. Composition/information on ingredients BIS(PENTAMETHYLPIPERIDYL) bis(1,2,2,6,6-pentamethyl-4-piperidyl) CAS: 41556-26-7 0.1 - < 1SEBACATE sebacate EC: 255-437-1 **TRIMETHYLOLPROPANE** propylidynetrimethanol CAS: 77-99-6 0.1 - < 1EC: 201-074-9 zinc bis(2-ethylhexanoate) CAS: 136-53-8 0.1 - < 1zinc bis(2-ethylhexanoate) EC: 205-251-1

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.

## Section 4. First aid measures

- A. 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. 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.
- E. 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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable

: Do not use water jet.

extinguishing media

. Do not use water jet

B. 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.

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## Section 5. Fire-fighting measures

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon oxides

nitrogen 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.

## 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 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.

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 handling

Put 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

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## Section 7. Handling and storage

(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.

B. 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

#### A. Occupational exposure limits

Ingredient name	Exposure limits
√itanium dioxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m³.
n-butyl acetate	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 200 ppm.
	TWA 8 hours: 150 ppm.
Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
Talc , not containing asbestiform fibres	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 2 mg/m³ (as asbestos).
	Form: fibers.
12-hydroxyoctadecanoic acid reaction products with	ACGIH TLV (United States)
1,3-benzenedimethanamine and hexamethylenediamine	TWA: 10 mg/m³. Form: Inhalable particle.
	TWA: 3 mg/m³ (inhalable dust). Form:
	Respirable particle.
1,2,4-trimethylbenzene	ISHA Article 42 (Republic of Korea,
	1/2020) [Trimethyl benzene]
	TWA 8 hours: 25 ppm.
ethylbenzene	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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## Section 8. Exposure controls/personal protection

controls

B. Appropriate engineering: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental** exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### C. Personal protective equipment

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**Eye protection Hand protection**  : Safety glasses with side shields.

: 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.

**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.

A. Appearance

**Physical state** : Liquid. Color : Gray.

B. Odor : Not available. C. Odor threshold : Not available. D. pH : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

: Closed cup: 25°C (77°F) G. Flash point

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## Section 9. Physical and chemical properties

H. Evaporation rate : Not available.

I. Flammability (solid, gas) : Not available.J. Lower and upper : Not available.

limits

K. Vapor pressure

explosive (flammable)

	Vapoi	r Pressu	re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
n-butyl acetate	11.25096	1.5	DIN EN 13016-2			

L. Solubility(ies) : Media Result

cold water Not soluble

Solubility in water : Not available.

Vapor density : Not available.

Relative density : 1.32

Partition coefficient: n-

octanol/water

: Not applicable.

\_ Auto-ignition

P. temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

Q. Decomposition temperature

Vicesity

: Not available.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

Flow time (ISO 2431) : Not available.

S. Molecular weight : Not applicable.

## Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**B.** 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 metal oxide/oxides

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## **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: Not available.

#### 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.

**Eye contact**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**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**

) Inhalation Dusts and 6 ) Dermal ) Oral ) Inhalation Vapor ) Inhalation Vapor ) Dermal ) Oral ) Dermal ) Oral	Rat Rabbit Rat Rat Rat Rat Rabbit Rat Rat	>6.82 mg/l >5000 mg/kg >5000 mg/kg >21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg 1.7 g/kg	4 hours  - 4 hours 4 hours - 1 hours
) Dermal ) Oral ) Inhalation Vapor ) Inhalation Vapor ) Dermal ) Oral ) Dermal	Rat Rat Rat Rabbit Rat Rabbit	>5000 mg/kg >21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg	
) Oral ) Inhalation Vapor ) Inhalation Vapor ) Dermal ) Oral ) Dermal	Rat Rat Rat Rabbit Rat Rabbit	>5000 mg/kg >21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg	
) Inhalation Vapor ) Inhalation Vapor ) Dermal ) Oral ) Dermal	Rat Rat Rabbit Rat Rabbit	>5000 mg/kg >21.1 mg/l 2000 ppm >17600 mg/kg 10.768 g/kg	
) Inhalation Vapor ) Dermal ) Oral ) Dermal	Rat Rabbit Rat Rabbit	2000 ppm >17600 mg/kg 10.768 g/kg	
) Inhalation Vapor ) Dermal ) Oral ) Dermal	Rabbit Rat Rabbit	2000 ppm >17600 mg/kg 10.768 g/kg	4 hours - -
) Dermal ) Oral ) Dermal	Rat Rabbit	>17600 mg/kg 10.768 g/kg	-
) Dermal	Rabbit	10.768 g/kg	-
) Oral			-
	Rat	4.3 g/kg	-
) Dermal	Rabbit	3.48 g/kg	-
) Oral	Rat	8400 mg/kg	-
Inhalation Dusts and	Rat	3.56 mg/l	4 hours
3			
) Dermal	Rat	>2000 mg/kg	-
) Oral	Rat	>2000 mg/kg	-
) Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
Oral ·	Rat	5 g/kg	-
) Inhalation Vapor	Rat	17.8 mg/l	4 hours
) Dermal	Rabbit	17.8 g/kg	-
) Oral	Rat		-
) Oral	Rat		-
	O Inhalation Dusts and S  O Dermal O Oral O Inhalation Vapor O Oral O Inhalation Vapor O Dermal O Oral O Oral	Dermal Rat Oral Rabbit Oral Rat	Rat   >2000 mg/kg   O   Oral   Rat   >2000 mg/kg   Nat   >2000 mg/kg   Nat   >2000 mg/kg   Nat   Nat

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#### Product code 00311116 Date of issue 1/15/2025 (month/day/year) Version 9.01 Product name SIGMADUR 1800 BASE RAL7035/CNC-5022 Section 11. Toxicological information sebacate Rabbit propylidynetrimethanol LD50 Dermal 10 g/kg LD50 Oral 14000 mg/kg Rat LD50 Dermal zinc bis(2-ethylhexanoate) Rabbit >5 g/kg 2043 mg/kg LD50 Oral Rat

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
▼ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

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

**Carcinogenicity** 

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

Reproductive toxicity

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

**Teratogenicity** 

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

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

Name	Classification	Route of exposure	Target organs
n-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
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

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

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## **Section 11. Toxicological information**

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

#### **Aspiration hazard**

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

#### **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
Manium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
	EC: 236-675-5	
n-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2
	EC: 204-658-1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
	EC: 215-535-7	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
T	0.00 1.1007.00.0	(REPEATED EXPOSURE) - Category 1
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
	FO: 020 077 0	Category 3
Colored a color of colored and the colored and	EC: 238-877-9	FLAMMARI E LIQUIDO. O LA COMO
Solvent naphtha (petroleum), light	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
aromatic	FC: 265 400 0	CIZIN IDDITATION Cotomory 2
	EC: 265-199-0	SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE

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## Section 11. Toxicological information

9	9.5			
		EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2		
12-hydroxyoctadecanoic acid reaction products with	CAS: 220926-97-6	ACUTE TOXICITY (oral) - Category 4		
1,3-benzenedimethanamine and hexamethylenediamine				
	EC: 432-840-2	ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2		
1,2,4-trimethylbenzene	CAS: 95-63-6 EC: 202-436-9	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) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2		
ethylbenzene	CAS: 100-41-4 EC: 202-849-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B		
	EC: 255-437-1	TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1		
propylidynetrimethanol	CAS: 77-99-6 EC: 201-074-9	TOXIC TO REPRODUCTION - Category 2		
zinc bis(2-ethylhexanoate)	CAS: 136-53-8 EC: 205-251-1	EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		

## Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	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> ( <i>Water flea</i> )	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>	21 days
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## **Section 12. Ecological information**

		(Water flea)	
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours
zinc bis(2-ethylhexanoate)	EC50 16 mg/l	Daphnia	48 hours
	LC50 107 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
12-hydroxyoctadecanoic acid reaction products with		9 % - Not readily - 29 days	-	-
1,3-benzenedimethanamine and hexamethylenediamine	Biodegradability - Closed Bottle			
ethylbenzene zinc bis(2-ethylhexanoate)	Test - -	79 % - Readily - 10 days 60 % - Readily - 28 days	- -	- -

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<mark>ଜ-</mark> butyl acetate	-	-	Readily
Xylene	-	-	Readily
ethylbenzene	-	-	Readily
zinc bis(2-ethylhexanoate)	-	-	Readily

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<mark>и-</mark> butyl acetate	2.3	-	Low
Xylene	3.12	7.4 to 18.5	Low
12-hydroxyoctadecanoic	>6	-	High
acid reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			
1,2,4-trimethylbenzene	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
propylidynetrimethanol	-0.47	-	Low
zinc bis(2-ethylhexanoate)	-	60960	High

### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

**E.** Other adverse effects : No known significant effects or critical hazards.

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Product name SIGMADUR 1800 BASE RAL7035/CNC-5022

## 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.

#### **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	IATA
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

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## 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.

**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:

**ISHA Enforcement Regs**: None of the components are listed.

**Annex 19 (Exposure** standards established for harmful factors)

**ISHA Enforcement Regs** Annex 11-5 (Harmful

factors subject to Work

The following components are listed: titanium dioxide, n-butyl acetate, xylene, talc / soapstone, ethyl benzene

**Environment Measurement)** 

**Annex 22 (Harmful Factors Subject to Special Health Check**up)

ISHA Enforcement Regs : The following components are listed: Xylene, Ethyl benzene

Standard of Industrial Safety and Health **Annex 12 (Hazardous** substances subject to

: The following components are listed: titanium dioxide, n-butyl acetate, xylene, ethyl benzene

control)

#### B. Regulation according to Chemicals Control Act

Article 11 (TRI)

: The following components are listed: 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** 

: Not applicable

Article 20)

**Korea inventory** : All components are listed or exempted. **Article 39 (Accident** : None of the components are listed.

**Precaution Chemicals**)

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Product name SIGMADUR 1800 BASE RAL7035/CNC-5022

## **Section 15. Regulatory information**

C. <u>Dangerous Materials</u> 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. Regulation according 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

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.

B. First issue date : 4/1/2018 C. Date of issue/Date of : 1/15/2025

revision

D. Version : 9.01
Prepared by : EHS

E. 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.

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