# **SAFETY DATA SHEET**



Date of issue 4/28/2025 (month/day/year)

Version 2

## Section 1. Chemical product and company identification

A. Product name : SIGMADUR 520 BASE RAL 7010

**Product code** : 000001183944

Other means of identification

00427114

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:

: +82-52-210-8331

# Section 2. Hazards identification

A. Hazard classification : AMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

GERM CELL MUTAGENICITY - Category 1B

CARCINOGENICITY - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

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 classified in accordance with the Industrial Safety and Health Act and

the Chemical Control Act.

B. GHS label elements, including precautionary statements

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### Section 2. Hazards identification

Symbol

Product code 000001183944







Signal word : Danger

**Hazard statements** : F226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness.

H340 - May cause genetic defects.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure. (central

nervous system (CNS), kidneys, liver)

H412 - Harmful to aquatic life with long lasting effects.

### **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.

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

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

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.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

P321 - Specific treatment (see the label).

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.

not result in

classification

**Storage** 

C. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.

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## Section 3. Composition/information on ingredients

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

**CAS** number : Not applicable.

Chemical name	Common name	Identifiers	%
▼alc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	20 - <30
		EC: 238-877-9	
Xylene	XYLENES	CAS: 1330-20-7 EC: 215-535-7	10 -<20
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	5 - <10
1,2,4-TRIMETHYLBENZENE	1,2,4-TRIMETHYL BENZENE	EC: 265-199-0 CAS: 95-63-6 EC: 202-436-9	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4 EC: 202-849-4	1 - <5
PROPYLENE GLYCOL MONOMETHYL ETHER ACE	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
titanium dioxide	TITANIUM DIOXIDE	EC: 203-603-9 CAS: 13463-67-7 EC: 236-675-5	1 - <5
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and	12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	CAS: 220926-97-6	1 - <5
hexamethylenediamine	hexamethylenediamine	EC: 432-840-2	
bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	0.1 - <1
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; Decanedioic acid methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	METHYL-(1,2,2,6,6-PENTAMETHYL- 4-PIPERDIYL) SEBACATE	EC: 255-437-1 CAS: 82919-37-7	0.1 - <1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		EC: 280-060-4	

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, irriga

- te 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.

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### Section 4. First aid measures

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. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing :

media

Unsuitable extinguishing media

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

: 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.

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.

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### Section 6. Accidental release measures

# 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 (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.

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# Section 8. Exposure controls/personal protection

### A. Occupational exposure limits

Ingredient name	Exposure limits
☑ alc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2024)
	TWA 8 hours: 2 mg/m³. Form: Respirable
	fraction.
Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
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.
titanium dioxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m³.
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.

### 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.

# 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**

Chemical splash goggles.

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# Section 8. Exposure controls/personal protection

Hand protection

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: 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 : Aromatic. [Strong]
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

G. Flash point : Closed cup: 34°C (93.2°F)

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

limits

K. Vapor pressure

explosive (flammable)

Ingredient name

Vapor Pressure at 20°C

Vapor pressure at 50°C

mm Hg kPa Method

Hg kPa Method

ethylbenzene

9.30076 1.2

L. Solubility(ies) : Media Result

cold water Not soluble

Solubility in water : Not available.

Vapor density : Not available.

Relative density : 1.22

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# Section 9. Physical and chemical properties

N. Partition coefficient: n-

O. octanol/water

: Not applicable.

**Auto-ignition** 

temperature

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

Q. Decomposition temperature

: Not available.

Viscosity : Dynamic (room temperature): Not available.

Kinematic (room temperature): >400 mm<sup>2</sup>/s (>400 cSt)

Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

Flow time (ISO 2431) : Not available.

Molecular weight : Not applicable.

# Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous reactions

Possibility of hazardous: 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 : Depending on conditions, decomposition products may include the following

decomposition products materials: carbon oxides nitrogen oxides metal oxide/oxides

# **Section 11. Toxicological information**

A. Information on the likely : Not a routes of exposure

: Not available.

Potential acute health effects

Inhalation : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause

drowsiness or dizziness. May cause respiratory irritation.

**Ingestion**: Can cause central nervous system (CNS) depression.

**Skin contact**: Causes skin irritation. Defatting to the skin.

**Eye contact**: Causes serious eye irritation.

Over-exposure signs/symptoms

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# **Section 11. Toxicological information**

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

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

Product/ingredient name	Result	Species	Dose	Exposure
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-TRIMETHYLBENZENE	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 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	-
PROPYLENE GLYCOL	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
MONOMETHYL ETHER ACE				
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
hexamethylenediamine				
Indicating the state of the s	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>2000 mg/kg	_
bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid	LD50 Oral	Rat	3.125 g/kg	-
Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate; Decanedioic acid methyl 1,2,2,6,6-pentamethyl- 4-piperidinyl ester	LD50 Oral	Rat	3.125 g/kg	-

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

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# **Section 11. Toxicological information**

### **Irritation/Corrosion**

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

**Conclusion/Summary** 

Skin : There are no data 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
▼alc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Xylene	Category 3	-	Narcotic effects
1,2,4-TRIMETHYLBENZENE	Category 3	-	Respiratory tract irritation
PROPYLENE GLYCOL MONOMETHYL ETHER ACE	Category 3	-	Respiratory tract irritation
-	Category 3	-	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
▼ylene	Category 1		central nervous system (CNS), kidneys, liver
1,2,4-TRIMETHYLBENZENE	Category 2	-	-
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	-	-

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# **Section 11. Toxicological information**

### Aspiration hazard

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

### **Potential chronic health effects**

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: May cause genetic defects.

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

### **Additional information**

Carcinogenicity

Prolonged or repeated contact may dry skin and cause irritation. 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
ralc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	EC: 238-877-9	
Xylene	CAS: 1330-20-7 EC: 215-535-7	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
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
	EC: 265-199-0	SKIN IRRITATION - Category 2 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - 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 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 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

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# Section 11. Toxicological information

		AQUATIC HAZARD (LONG-TERM) - Category 3
PROPYLENE GLYCOL MONOMETHYL ETHER ACE	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
	EC: 203-603-9	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
titanium dioxide	CAS: 13463-67-7 EC: 236-675-5	CARCINOGÉNICITY - 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
bis(1,2,2,6,6,-pentamethyl-4-piperidyl) dethanedionic acid	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1
	EC: 255-437-1	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; Decanedioic acid methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	CAS: 82919-37-7	AQUATIC HAZARD (ACUTE) - Category 1
1,2,2,0,0-pentametry-4-pipendirlyi ester	EC: 280-060-4	AQUATIC HAZARD (LONG-TERM) - Category 1

# Section 12. Ecological information

### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours
PROPYLENE GLYCOL MONOMETHYL ETHER ACE	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide 12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute LC50 >100 mg/l Fresh water Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> Algae - <i>Pseudokirchneriella</i> subcapitata (microalgae)	48 hours 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> (Water flea)	21 days

### B. Persistence and degradability

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# **Section 12. Ecological information**

Product/ingredient name	Test	Result	Dose	Inoculum
fhylbenzene PROPYLENE GLYCOL MONOMETHYL ETHER ACE	-	79 % - Readily - 10 days 83 % - Readily - 28 days	-	-
12-hydroxyoctadecanoic acid reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	OECD Ready Biodegradability - Closed Bottle Test	9 % - Not readily - 29 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
▼ylene	-	-	Readily
ethylbenzene	-	-	Readily
PROPYLENE GLYCOL	-	-	Readily
MONOMETHYL ETHER			
ACE			

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	3.12	7.4 to 18.5	Low
1,2,4-TRIMETHYLBENZENE	3.63	120.23	Low
ethylbenzene	3.6	79.43	Low
PROPYLENE GLYCOL	1.2	-	Low
MONOMETHYL ETHER			
ACE			
12-hydroxyoctadecanoic	>6	-	High
acid reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			

### D. Mobility in soil

Soil/Water partition coefficient

: Not available.

**E.** Other adverse effects : 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.

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

2.3.2.5.1.

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

2.3.2.5.

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.

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## 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:

**Annex 19 (Exposure** standards established

for harmful factors)

**ISHA Enforcement Regs** Annex 11-5 (Harmful factors subject to Work

**Environment Measurement)** 

**ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check-**

up)

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

control)

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

: The following components are listed: talc / soapstone, xylene, ethyl benzene, titanium dioxide

: The following components are listed: xylene, ethyl benzene, titanium dioxide

: The following components are listed: Xylene, Ethyl benzene

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)** 

**Article 19 Subject to** authorization (K-Reach

Article 25)

**Article 20 Restricted (K-**

Reach Article 27)

**Article 20 Toxic Chemicals (K-Reach** 

Article 20)

**Korea inventory** : At least one component is not listed. **Article 39 (Accident** : None of the components are listed.

: Not applicable

**Precaution Chemicals**)

C. Dangerous Materials Safety Management Act : Class: Class 4 - Flammable Liquid

: None of the components are listed.

: None of the components are listed.

: None of the components are listed.

Item: 4. Class 2 petroleums - Water-insoluble liquid

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

Dispose of contents and container in accordance with all local, regional, national D. Wastes regulation

and international regulations.

E. Regulation according to other foreign laws

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**Product name SIGMADUR 520 BASE RAL 7010** 

## Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

### 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 : 10/7/2024
C. Date of issue/Date of : 4/28/2025

revision

D. Version : 2
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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