# **SAFETY DATA SHEET**



Date of issue 11/8/2022 (month/day/year)

Version 3

# Section 1. Chemical product and company identification

A. Product name : SIGMACOVER 350 BASE GREY

Product code : 00313942

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:

: +82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A

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

Symbol :









Signal word : Danger

Korea (GHS) Page: 1/16

**Product name SIGMACOVER 350 BASE GREY** 

### Section 2. Hazards identification

**Hazard statements** 

: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

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.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

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.

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

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

Storage: P403 + P235 - Store in a well-ventilated place. Keep cool.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do

not result in classification

: 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	%
rystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	10 -<20
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT &gt;700 - &lt;1100)</td><td>CAS: 25036-25-3</td><td>10 -&lt;20</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	5 - <10
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5

Korea (GHS) Page: 2/16

Product code 00313942 Product name SIGMACOVER 350 BASI	Date of issue 11/8/2022 (mo	onth/day/year) Ve	ersion 3
Section 3. Composition/i	nformation on ingredien	ts	
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	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		
carbon black	CARBON BLACK	CAS: 1333-86-4	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.

### Section 4. First aid measures

3	ection 4. i iist ait		illeasules
A.	Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

Korea (GHS) Page: 3/16

Date of issue 11/8/2022 (month/day/year) Version 3

**Product name SIGMACOVER 350 BASE GREY** 

# Section 5. Fire-fighting measures

from the chemical

Product code 00313942

B. Specific hazards arising: 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

halogenated compounds 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. Do not breathe 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.

> Korea (GHS) Page: 4/16

# Section 7. Handling and storage

# A. Precautions for safe handling

- : Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.

# Section 8. Exposure controls/personal protection

### A. Occupational exposure limits

Ingredient name	Exposure limits
rystalline silica, respirable powder (>10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020).  TWA: 0.05 mg/m³ 8 hours. Form: Respirable fraction
Xylene	Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m³ 8 hours. Form: fibers
titanium dioxide	Ministry of Employment and Labor (Republic of Korea, 1/2020).  TWA: 10 mg/m³ 8 hours. Form: total dust with less than 1% of free SiO2
2-methylpropan-1-ol	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours.
ethylbenzene	Ministry of Employment and Labor (Republic of Korea, 1/2020).  STEL: 125 ppm 15 minutes.  TWA: 100 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020).

Korea (GHS) Page: 5/16

Date of issue 11/8/2022 (month/day/year) Version 3

**Product name SIGMACOVER 350 BASE GREY** 

## Section 8. Exposure controls/personal protection

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine

carbon black

Product code 00313942

TWA: 0.05 mg/m³ 8 hours. Form:

Respirable fraction

ACGIH TLV (United States).

TWA: 10 mg/m³ Form: Inhalable particle TWA: 3 mg/m³, (inhalable dust) Form:

Respirable particle

Ministry of Employment and Labor (Republic of Korea, 1/2020).

TWA: 3.5 mg/m³ 8 hours. Form: inhalable

fraction

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

# B. Appropriate engineering : controls

: 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

: Chemical splash goggles and face shield.

: 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 Body protection

: butyl rubber

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.

Korea (GHS) Page: 6/16

**Product name SIGMACOVER 350 BASE GREY** 

## Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the layatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Section 9. Physical and chemical properties

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. [Slight] : Not available. C. Odor threshold D. pH : Not applicable. : Not available. E. Melting/freezing point F. Boiling point/boiling

range

limits

: >37.78°C (>100°F)

G. Flash point : Closed cup: 30°C (86°F)

H. Evaporation rate : Not available. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

K. Vapor pressure

Vapor Pressure at 20°C					Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
2-methylpropan-1-ol	<12	<1.6	DIN EN 13016-2				

L. Solubility(ies)

**Result** Media cold water Not soluble

Solubility in water : Not available. Vapor density Not available. : 1.47

Partition coefficient: n-

**Relative density** 

: Not applicable.

octanol/water

**Auto-ignition** 

temperature

Ingredient name	°C	°F	Method
⊋ methylpropan-1-ol	415	779	

**Decomposition** temperature

: Not available.

Korea (GHS) Page: 7/16

**Product name SIGMACOVER 350 BASE GREY** 

## Section 9. Physical and chemical properties

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

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

: Not available. Flow time (ISO 2431) **Molecular weight** : Not applicable. S.

# 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.

Depending on conditions, decomposition products may include the following D. Hazardous

materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/

oxides

# Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

### Potential acute health effects

decomposition products

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Skin contact Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Eye contact : Causes serious eye damage.

### Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : Adverse symptoms may include the following:

stomach pains

**Skin contact** : Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur

Adverse symptoms may include the following: Eye contact

> pain watering redness

B. Health hazards

**Acute toxicity** 

Korea (GHS) Page: 8/16

**Product name SIGMACOVER 350 BASE GREY** 

# Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
poxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>_</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	_
	LD50 Oral	Rat	>2000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
	mists			
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 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	-
12-hydroxyoctadecanoic acid, reaction	LC50 Inhalation Dusts and	Rat	3.56 mg/l	4 hours
products with	mists			
1,3-benzenedimethanamine and				
hexamethylenediamine				
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
carbon black	LD50 Oral	Rat	>10 g/kg	-

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

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
bis-[4-(2,3-epoxipropoxi)phenyl] propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Edema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

**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**

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin	Mouse	Sensitizing

Korea (GHS) Page: 9/16

**Product name SIGMACOVER 350 BASE GREY** 

## **Section 11. Toxicological information**

**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
Xylene Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
2-methylpropan-1-ol	Category 3 Category 3	-	Respiratory tract irritation Narcotic effects

### Specific target organ toxicity (repeated exposure)

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	inhalation	lungs

#### **Aspiration hazard**

Name	Result
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

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

**Mutagenicity**: No known significant effects or critical hazards.

Korea (GHS) Page: 10/16

**Product name SIGMACOVER 350 BASE GREY** 

## **Section 11. Toxicological information**

**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
rystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B
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
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2
benzyl alcohol	CAS: 100-51-6	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A ASPIRATION HAZARD - Category 2
titanium dioxide 2-methylpropan-1-ol	CAS: 13463-67-7 CAS: 78-83-1	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	CAS: 100-41-4	ASPIRATION HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
12-hydroxyoctadecanoic acid, reaction products with	CAS: 220926-97-6	ACUTE TOXICITY (inhalation) - Category 4

Korea (GHS) Page: 11/16

Product code 00313942 Product name SIGMACOVER 350 BA		ssue 11/8/2022 (month/day/year)	Version 3
Section 11. Toxicological information			
1,3-benzenedimethanamine and hexamethylenediamine carbon black	CAS: 1333-86-4	SPECIFIC TARGET ORGAN TOX (REPEATED EXPOSURE) - Cate CARCINOGENICITY - Category 2	gory 2

# Section 12. Ecological information

## A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
startation of the start of the	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
12-hydroxyoctadecanoic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella	72 hours
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine		subcapitata (microalgae)	
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna (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 - Daphnia magna (Water flea)	21 days

### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	- OECD 301D Ready Biodegradability - Closed Bottle Test		adily - 10 days readily - 29 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Xylene bis-[4-(2,3-epoxipropoxi) phenyl]propane benzyl alcohol	-		-		Readily Not rea Readily	dily

Readily

### C. Bioaccumulative potential

ethylbenzene

Korea (GHS)	Page: 12/16
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**Product name SIGMACOVER 350 BASE GREY** 

# **Section 12. Ecological information**

Product/ingredient name	LogPow	BCF	Potential
Kylene benzyl alcohol 2-methylpropan-1-ol ethylbenzene 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	3.12 0.87 1 3.6 >6	7.4 to 18.5 - - 79.43	low low low high

D. Mobility in soil

Soil/water partition coefficient (Koc)

: 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.
- **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.

Korea (GHS) Page: 13/16

**Product name SIGMACOVER 350 BASE GREY** 

# **Section 14. Transport information**

#### **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.

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

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 tranportation

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)

ISHA article 118 (Harmful substances requiring permission)

**Article 2 of Youth Protection Act on Substances Hazardous** 

to Youth

: None of the components are listed.

: None of the components are listed.

: 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:

rystalline silica, respirable powder (>10 microns)

**Xylene** 

Talc, not containing asbestiform fibres

titanium dioxide

2-methylpropan-1-ol

ethylbenzene

crystalline silica, respirable powder (<10 microns)

12-hydroxyoctadecanoic acid, reaction products with 1.3-benzenedimethanamine and hexamethylenediamine carbon black

**Annex 19 (Exposure** 

standards established

for harmful factors)

**ISHA Enforcement Regs Annex 21 (Harmful** 

factors subject to Work **Environment** 

**Measurement)** 

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

The following components are listed: quartz, xylene, talc / soapstone, titanium

dioxide, isobutyl alcohol, ethyl benzene, quartz

Page: 14/16 Korea (GHS)

**Product name SIGMACOVER 350 BASE GREY** 

## Section 15. Regulatory information

**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 : The following components are listed: Xylene, Isobutyl alcohol, Ethyl benzene

: The following components are listed: xylene, titanium dioxide, isobutyl alcohol, 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** 

**Article 39 (Accident Precaution Chemicals**)

Safety Management Act

: Not applicable

: All components are listed or exempted.

: None of the components are listed.

C. <u>Dangerous Materials</u> : Class: Class 4 - Flammable Liquid

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

Threshold: 1000 L Danger category: |||

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

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

the product

Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

NIER Notice

: 11/8/2022

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. Date of issue/Date of

revision

C. Version : 3

> Korea (GHS) Page: 15/16

**Product name SIGMACOVER 350 BASE GREY** 

### **Section 16. Other information**

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.

Korea (GHS) Page: 16/16