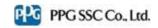
# **SAFETY DATA SHEET**



Date of issue 1/15/2020 (month/day/year)

Version 3.02

# Section 1. Chemical product and company identification

A. Product name : SIGMACOVER 555 BASE GREY(N)

Product code : 00390600

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

Product use : Professional applications, Used by spraying.Use of the substance/ : Coating. Paint. Painting-related materials.

mixture

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

C. Supplier's information : PPG SSC

(680-090)

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

Ulsan, Korea

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

**Emergency telephone** 

number:

**Email Address** 

: +82-52-210-8222

### Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous

system (CNS), kidneys, liver) - 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 : Danger

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**Product name SIGMACOVER 555 BASE GREY(N)** 

### Section 2. Hazards identification

#### Hazard statements

: H226 - Flammable liquid and vapor.

H332 - Harmful if inhaled.

H318 - Causes serious eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H335 - May cause respiratory irritation.

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.

#### **Precautionary statements**

#### **Prevention**

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P233 - Keep container tightly closed.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P240 - Ground/bond container and receiving equipment.

#### Response

: P314 - Get medical attention if you feel unwell.

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

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362 + P364 - IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

P333 + P313 - If skin irritation or rash occurs: Get medical 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 physician.

#### **Storage**

: P405 - Store locked up.

P403 - Store in a well-ventilated place. P233 - Keep container tightly closed.

P235 - Keep cool.

#### **Disposal**

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

national and international regulations.

# C. Other hazards which do not result in

classification

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	%
<b> ✓</b> -methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL	CAS: 108-10-1	10 -<20
	ISOBUTYL KETONE	0.40 4.4007.00.0	40 .00
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
Propane, 1-(ethenyloxy)-2-methyl-,	VINYL RESIN	CAS: 25154-85-2	10 -<20
polymer with chloroethene			
reaction product: bisphenol-A-	EPOXY RESIN	CAS: 25068-38-6	10 -<20
(epichlorhydrin); epoxy resin			
Mica-group minerals	MICA	CAS: 12001-26-2	5 - <10
Xylene	Xylene	CAS: 1330-20-7	5 - <10
crystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	5 - <10
microns)	,		
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	1 - <5
	ETHER		
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5

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.

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

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- : 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
- : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments
Protection of first-aiders

- : No specific treatment.
- : 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)

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**Product name SIGMACOVER 555 BASE GREY(N)** 

## **Section 5. Fire-fighting measures**

#### A. Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, water spray (fog) or foam.

Unsuitable 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.

# Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon oxides sulfur 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.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

Product name Signiacover 555 Base GRET(N)

# Section 6. Accidental release measures

Large spill

Product code 00390600

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

# Section 7. Handling and storage

- A. Precautions for safe handling
- Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- B. Conditions for safe 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

<b>Exposure limits</b>
Ministry of Employment and Labor
(Republic of Korea, 7/2018).
STEL: 75 ppm 15 minutes.
TWA: 50 ppm 8 hours.
Ministry of Employment and Labor
(Republic of Korea, 7/2018).
TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers
Ministry of Employment and Labor
(Republic of Korea, 7/2018).
TWA: 3 mg/m³ 8 hours. Form: Respirable

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**Product name SIGMACOVER 555 BASE GREY(N)** 

### Section 8. Exposure controls/personal protection

Xylene Ministry of Employment and Labor (Republic of Korea, 7/2018).

TWA: 100 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)

Ministry of Employment and Labor

(Republic of Korea, 7/2018). TWA: 0.05 mg/m³ 8 hours. Form:

Respirable fraction titanium dioxide Ministry of Emplo

Ministry of Employment and Labor

(Republic of Korea, 7/2018).

STEL: 150 ppm 15 minutes.

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total dust

with less than 1% of free SiO2

Ministry of Employment and Labor

(Republic of Korea, 7/2018).

STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Ministry of Employment and Labor (Republic of Korea, 7/2018).

STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.

Recommended monitoring procedures

1-methoxy-2-propanol

ethylbenzene

: 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.

: 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.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

### Section 8. Exposure controls/personal protection

: butvl rubber **Gloves** 

Personal protective equipment for the body should be selected based on the task **Body protection** 

being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges,

clothing should include anti-static overalls, boots and gloves.

**Hygiene measures** Wash hands, forearms and face thoroughly after handling chemical products, before

> eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

# Section 9. Physical and chemical properties

A. Appearance

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

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

range

: Closed cup: 26°C (78.8°F) G. Flash point

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.48% Upper: 13.74% (1-methoxy-2-propanol)

K. Vapor pressure : Not available.

L. Solubility : Insoluble in the following materials: cold water.

M. Vapor density Not available.

N. Relative density 1.37

O. Partition coefficient: n-

octanol/water

: Not available.

P. Auto-ignition : Not available.

temperature

: Not available.

Q. Decomposition

temperature

R. Viscosity

: Kinematic (40°C (104°F)): >0.21 cm<sup>2</sup>/s (>21 cSt)

S. Molecular weight : Not applicable.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

## Section 10. Stability and reactivity

A. Chemical stability

Possibility of hazardous

reactions

: The product is stable.

: 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

materials: carbon oxides sulfur 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 : Harmful if inhaled. May cause respiratory irritation.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** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**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

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

pain watering redness

B. Health hazards
Acute toxicity

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# **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
✓methylpentan-2-one	LC50 Inhalation Vapor	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
reaction product: bisphenol-A-	LD50 Dermal	Rabbit	>2 g/kg	-
(epichlorhydrin); epoxy resin				
	LD50 Oral	Rat	11.4 g/kg	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 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	-

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

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
eaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
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**

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing

**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.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

## **Section 11. Toxicological information**

#### **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
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	Not applicable.	Respiratory tract irritation
Xylene 1-methoxy-2-propanol	Category 3 Category 3	Not applicable. Not applicable.	Narcotic effects Narcotic effects

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

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

#### **Aspiration hazard**

Name	Result
ethylbenzene	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. 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.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Additional information**

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Wash thoroughly after handling. Emits toxic fumes when heated.

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# Section 11. Toxicological information

Chemical name	Common name	CAS#	GHS Classification
<b>✓</b> -methylpentan-2-one	4-METHYLPENTAN-2-ONE / METHYL ISOBUTYL KETONE	108-10-1	FLAMMABLE LIQUIDS - Category 2
			ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
			CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
Talc , not containing asbestiform fibres	Talc, non-asbestos form	14807-96-6	irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Propane, 1-(ethenyloxy) -2-methyl-, polymer with chloroethene	VINYL RESIN	25154-85-2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	EPOXY RESIN	25068-38-6	SKIN CORROSION/IRRITATION - Category 2
Tesiii T			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Mica-group minerals Xylene	MICA Xylene	12001-26-2 1330-20-7	Not classified. FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
			Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys, liver) - Category 1
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	14808-60-7	CARCINOGENICITY - Category 1A
titanium dioxide 1-methoxy-2-propanol	TITANIUM DIOXIDE PROPYLENE GLYCOL MONOMETHYL ETHER	13463-67-7 107-98-2	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1

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# **Section 12. Ecological information**

#### A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide 1-methoxy-2-propanol	Acute LC50 >100 mg/l Fresh water Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia - Daphnia magna Daphnia Fish	48 hours 48 hours 96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol-A-(epichlorhydrin); epoxy	-	-	Not readily
resin Xylene ethylbenzene	- -	-	Readily Readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b></b> ✓-methylpentan-2-one	1.31	-	low
reaction product: bisphenol-	3	31	low
A-(epichlorhydrin); epoxy			
resin			
Xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low

#### 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.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

# 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 : 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.

# Section 15. Regulatory information

#### A. Regulation according to ISHA

ISHA article 37 (Harmful substances prohibited from manufacture)

: None of the components are listed.

ISHA article 38 (Harmful substances requiring

: None of the components are listed.

permission)

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

: It is not allowed to sell to persons under the age of 19.

to Youth

**Exposure Limits of Chemical Substances and Physical Factors** 

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**Product name SIGMACOVER 555 BASE GREY(N)** 

## Section 15. Regulatory information

The following components have an OEL:

4-methylpentan-2-one

Talc, not containing asbestiform fibres

Mica-group minerals

**Xylene** 

crystalline silica, respirable powder (<10 microns)

titanium dioxide

1-methoxy-2-propanol

ethylbenzene

**ISHA Enforcement Regs** Annex 11-3 (Exposure standards established for harmful factors)

: None of the components are listed.

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

: The following components are listed: Methyl isobutyl ketone Preparations containing material at weight ratio of 1% or more, Mica less than 1% crystalline silica; (Mineral dust), Quartz (Mineral dust), Titanium dioxide Preparations containing material at weight ratio more than 1%, Talc, non-asbestos form/Soap stone less than 1% crystalline silica; (Mineral dust), Xylene, o,m,p-isomers Preparations containing material at weight ratio of 1% or more, Ethylbenzene Preparations containing material at weight ratio of 1% or more

**ISHA Enforcement Regs** Annex 12-2 (Harmful **Factors Subject to Special Health Check-up)**  The following components are listed: Methyl isobutyl ketone, Xylene, Ethylbenzene

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

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

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

**CCA Article 20 Toxic** 

**Chemicals (K-Reach** 

Article 20)

**CCA Article 18 Prohibited (K-Reach** 

Article 27)

**CCA Article 20** 

**Restricted (K-Reach** Article 27)

: None of the components are listed.

: Not applicable

: None of the components are listed.

**CCA Article 11 (TRI)** 

: The following components are listed: Barium and its compounds, Xylene including o-,

m-,p- isomer, Ethylbenzene

**Korea inventory** 

**CCA Article 39 (Accident** 

**Precaution Chemicals**)

: All components are listed or exempted. : None of the components are listed.

: Class: Class 4 - Flammable Liquid

C. <u>Dangerous Materials</u> **Safety Management Act** 

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.

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**Product name SIGMACOVER 555 BASE GREY(N)** 

## **Section 15. Regulatory information**

#### 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. Date of issue/Date of

revision

: 1/15/2020

C. Version : 3.02
Prepared by : EHS

D. Other

#### Procedure used to derive the classification

Classification	Justification	
Flam. Lig. 3, H226	On basis of test data	
Acute Tox. 4, H332	Calculation method	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
Skin Sens. 1, H317	Calculation method	
Carc. 1A, H350	Calculation method	
STOT SE 3, H335	Calculation method	
STOT RE 2, H373 (central nervous system (CNS), kidneys,	Calculation method	
liver)		
Aquatic Chronic 3, H412	Calculation method	

#### ✓ 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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