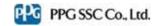


# SAFETY DATA SHEET



4/16/2020 (month/day/year)

Version 8.01

## Section 1. Chemical product and company identification

: SIGMACOVER 435 US GREY BASE 9553-05 A. Product name

**Product code** : 00333348

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

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

mixture

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

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 2

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous

system (CNS), kidneys, liver) - 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: 1/15

**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

### Section 2. Hazards identification

#### **Hazard statements**

: H226 - Flammable liquid and vapor.

H332 - Harmful if inhaled.

H319 - Causes serious eye irritation.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H350 - May cause cancer.

H360 - May damage fertility or the unborn child.

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**

: 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.

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

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 - 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 attention.

#### **Storage**

: P405 - Store locked up.

P403 - Store in a well-ventilated place.

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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Product code 00333348 Date of issue 4/16/2020 (month/day/year) Version 8.01
Product name SIGMACOVER 435 US GREY BASE 9553-05

## Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	5 - <10
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (700 &lt; MW &lt;=1100)</td><td>CAS: 67924-34-9</td><td>1 - &lt;5</td></mw<=1100)<>	EPOXY RESIN (700 < MW <=1100)	CAS: 67924-34-9	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
Bis(2-ethylhexyl) phthalate and mixtures which contain 25% or more	BIS(2-ETHYLHEXYL)PHTHALATE	CAS: 117-81-7	1 - <5
Aluminium powder (stabilized).	ALUMINUM POWDER	CAS: 7429-90-5	1 - <5
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
Toluene	TOLUENE	CAS: 108-88-3	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.

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

J		4	ilica 3 ali 63
A.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
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	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	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

with water before removing it, or wear gloves.

or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly

See toxicological information (Section 11)

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**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

# Section 5. Fire-fighting measures

#### A. Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing media

: Use dry chemical, CO2, 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

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

# B. Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### C. Methods and materials for containment and cleaning up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with 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

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**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

### Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

# A. Precautions for safe handling

Product code 00333348

- : 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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
- : Do not store above the following temperature: 50°C (122°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
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	TWA: 2 mg/m³ 8 hours. Form: fibers
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Bis(2-ethylhexyl) phthalate and mixtures which contain 25% or more	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).
	STEL: 10 mg/m³ 15 minutes.
	TWA: 5 mg/m <sup>3</sup> 8 hours.
Aluminium powder (stabilized).	Ministry of Employment and Labor
	(Republic of Korea, 7/2018).

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### Section 8. Exposure controls/personal protection

crystalline silica, respirable powder (<10 microns)

Ministry of Employment and Labor

(Republic of Korea, 7/2018). TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form:

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

Respirable fraction

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

STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.

Recommended monitoring procedures

Toluene

: 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.

**Gloves** 

: butyl rubber

**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.

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**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

### Section 8. Exposure controls/personal protection

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

range

: Closed cup: 23.89°C (75°F) G. Flash point H. Evaporation rate : 0.61 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

: Greatest known range: Lower: 0.8% Upper: 6.7% (xylene)

J. Lower and upper explosive (flammable)

limits

L. Solubility

K. Vapor pressure

: 0.85 kPa (6.4 mm Hg) [room temperature] : Insoluble in the following materials: cold water.

M. Vapor density : Not available.

N. Relative density : 1.46

O. Partition coefficient: n-

octanol/water

Not available.

P. Auto-ignition

: Not available.

temperature

Q. Decomposition : Not available.

temperature

R. Viscosity

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

S. Molecular weight : Not applicable.

# Section 10. Stability and reactivity

A. Chemical stability

**Possibility of hazardous** 

: The product is stable.

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.

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**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

### Section 10. Stability and reactivity

C. Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

D. Hazardous : decomposition products

: Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides

### **Section 11. Toxicological information**

A. Information on the likely : No

: Not available.

routes of exposure

#### Potential acute health effects

**Inhalation** : Harmful if inhaled.

**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 irritation.

#### Over-exposure signs/symptoms

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

reduced fetal weight increase in fetal deaths skeletal malformations

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

reduced fetal weight increase in fetal deaths skeletal malformations

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

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**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	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Bis(2-ethylhexyl) phthalate and mixtures	LD50 Dermal	Rabbit	25 g/kg	-
which contain 25% or more				
	LD50 Oral	Rat	30 g/kg	-
Aluminium powder (stabilized).	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours

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### **Section 11. Toxicological information**

Toluene	mists LD50 Oral LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	>15900 mg/kg 49 g/m³ 8.39 g/kg	- 4 hours -
	LD50 Oral	Rat	5580 mg/kg	-

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

#### Irritation/Corrosion

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

**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)

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**Product name SIGMACOVER 435 US GREY BASE 9553-05** 

## **Section 11. Toxicological information**

Name	Classification	Route of exposure	Target organs
	0 ,	Not applicable.	Narcotic effects Respiratory tract irritation
Toluene	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 1	Not determined	central nervous system (CNS), kidneys and liver
Toluene	Category 2	Not determined	Not determined

#### **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. 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**: May damage the unborn child.

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

Fertility effects : May damage fertility.

#### **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.

Chemical name	Common name	CAS#	GHS Classification
Xylene	XYLENES		FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

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Product code 00333348

# **Section 11. Toxicological information**

			_
			Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), kidneys, liver) - Category 1
Talc , not containing asbestiform fibres	Talc, non-asbestos form	14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Bisphenol A diglycidyl ether	1675-54-3	SKIN CORROSION/IRRITATION - Category
			SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
Epoxy Resin (700 <mw <="1100)&lt;/td"><td>EPOXY RESIN (700 &lt; MW &lt;=1100)</td><td>67924-34-9</td><td>SKIN CÓRROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION</td></mw>	EPOXY RESIN (700 < MW <=1100)	67924-34-9	SKIN CÓRROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION
			- Category 2 SKIN SENSITIZATION - Category 1
ethylbenzene	ETHYLBENZENE	100-41-4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Bis(2-ethylhexyl) phthalate and mixtures which contain 25% or more	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	CARCINOGENICITY - Category 2
			TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B AQUATIC HAZARD (LONG-TERM) -
Aluminium powder (stabilized).	ALUMINUM POWDER	7429-90-5	Category 2 FLAMMABLE SOLIDS - Category 1
	OHARTZ (<10 migrang)	14808-60-7	SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	14000-00-7	CARCINOGENICITY - Category 1A
Toluene	TOLUENE	108-88-3	FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category
			TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
			ASPIRATION HAZARD - Category 1

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Product code 00333348 Date of issue 4/16/2020 (month/day/year) Version 8.01
Product name SIGMACOVER 435 US GREY BASE 9553-05

## **Section 12. Ecological information**

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
ethylbenzene	Chronic NOEC 0.3 mg/l Acute LC50 150 to 200 mg/l Fresh water	Daphnia Fish	21 days 96 hours

#### B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Xylene bis-[4-(2,3-epoxipropoxi)	-		Readily Not readily
phenyl]propane ethylbenzene	-		Readily
Toluene	-	-	Readily

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
Bis(2-ethylhexyl) phthalate and mixtures which contain	7.6	588.84	high
25% or more			
Toluene	2.73	8.32	low

#### D. Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: 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.

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### **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 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.

### Section 15. Regulatory information

#### A. Regulation according to ISHA

ISHA article 37 (Harmful : None of the components are listed.

substances prohibited from manufacture)

ISHA article 38 (Harmful : None of the components are listed.

substances requiring permission)

**Article 2 of Youth Protection** 

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

**Act on Substances Hazardous** to Youth

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

The following components have an OEL:

**Xylene** 

Talc , not containing asbestiform fibres

ethylbenzene

Bis(2-ethylhexyl) phthalate and mixtures which contain 25% or more

Aluminium powder (stabilized).

crystalline silica, respirable powder (<10 microns)

Toluene

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### Section 15. Regulatory information

Annex 11-3 (Exposure standards established for harmful factors)

ISHA Enforcement Regs : None of the components are listed.

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

: The following components are listed: 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, Aluminum, metal (Dust), as AL: Preparations containing material at weight ratio more than 1%

**ISHA Enforcement Regs** Annex 12-2 (Harmful **Factors Subject to Special Health Check-up)**  The following components are listed: Xylene, Ethylbenzene, Aluminum and compounds as Al

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

: The following components are listed: di (2-ethylhexyl) phthalate, xylene, ethyl benzene, aluminum and its compounds

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

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

Article 20)

: Not applicable

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

Article 27)

**CCA Article 20 Restricted (K-Reach** 

: None of the components are listed.

: None of the components are listed.

Article 27)

CCA Article 11 (TRI)

: The following components are listed: Di(2-ethylhexyl) phthalate, Xylene including o-, m-,p- isomer, Ethylbenzene, Aluminium and its compounds

**Korea inventory CCA Article 39 (Accident Precaution Chemicals**)

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

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

D. Wastes regulation

: Class: Class 4 - Flammable Liquid

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

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### E. Regulation according to other foreign laws

Safety, health and environmental regulations specific for the product

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

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### 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

4/16/2020

C. Version : 8.01
Prepared by : EHS

D. Other

#### Procedure used to derive the classification

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 1A, H350	Calculation method
Repr. 1B, H360 (Fertility)	Calculation method
Repr. 1B, H360 (Unborn child)	Calculation method
STOT RE 1, H372 (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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