SAFETY DATA SHEET



Date of issue 8/13/2021 (month/day/year)

Version 1

Section 1. Chemical product and company identification

A. Product name : SIGMACOVER 850 BASE GREY 5177

Product code : 00446613

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 CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 3

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :







Signal word : Danger

Korea (GHS) Page: 1/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 2. Hazards identification

Hazard statements : H2

: H226 - Flammable liquid and vapor.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

(central nervous system (CNS), kidneys, liver)

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

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.

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 - IF IN EYES: Rinse cautiously with water for several minutes.

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

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	%
crystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	20 - <30
microns)	EDOVY DECIN	CAC, 25060, 20, 6	10 -00
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	EPOXY RESIN	CAS: 25068-38-6	10 -<20
Talc, not containing asbestiform fibers	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
aluminium oxide	ALUMINUM OXIDE	CAS: 1344-28-1	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE</td><td>CAS: 25036-25-3</td><td>1 - <5</td></mw<=1100)<>	EPOXY RESIN (AVERAGE	CAS: 25036-25-3	1 - <5
	MOLECULAR WEIGHT >700 - <1100)		
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5

Korea (GHS) Page: 2/16

Product code 00446613 Date of issue 8/13/2021 (month/day/year) **Version 1 Product name SIGMACOVER 850 BASE GREY 5177** Section 3. Composition/information on ingredients benzyl alcohol BENZYL ALCOHOL CAS: 100-51-6 1 - < 5 glass, oxide, chemicals **GLASS OXIDES** CAS: 65997-17-3 1 - < 5 crystalline silica, respirable powder (>10 QUARTZ (>10 microns) CAS: 14808-60-7 1 - < 5 microns) 12-hydroxyoctadecanoic acid, reaction 12-hydroxyoctadecanoic acid, reaction CAS: 220926-97-6 1 - < 5 products with products with 1,3-benzenedimethanamine and 1,3-benzenedimethanamine and hexamethylenediamine hexamethylenediamine

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.

ETHYLBENZENE

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

ethylbenzene

A.	Eye contact	:	Remove contact lenses,	, irrigate copiously with clean, fresh water, holding the	
			evelids apart for at least	10 minutes and seek immediate medical advice	

B. Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and
	water or use recognized skin cleanser. Do NOT use solvents or thinners.

C. Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is
	irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by
	trained personnel.

- D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.
 Keep person warm and at rest. Do NOT induce vomiting.
- E. Notes to physician
 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
 Specific treatments
 No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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, CO₂, water spray (fog) or foam.

: Do not use water jet.

Korea (GHS) Page: 3/16

CAS: 100-41-4

1 - < 5

Product name SIGMACOVER 850 BASE GREY 5177

Section 5. Fire-fighting measures

from the chemical

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

B. Environmental precautions

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

C. Methods and materials for containment and cleaning up

Small spill

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

Large spill

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

> Korea (GHS) Page: 4/16

Section 7. Handling and storage

A. Precautions for safe handling

- : Put 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
crystalline 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
Talc, not containing asbestiform fibers	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m³ 8 hours. Form: fibers
aluminium oxide	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours. Form: total dust
Xylene	with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes.
titanium dioxide	TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours. Form: total dust
2-methylpropan-1-ol	with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020).
glass, oxide, chemicals	TWA: 50 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).

Korea (GHS) Page: 5/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 8. Exposure controls/personal protection

crystalline silica, respirable powder (>10 microns)

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

ethylbenzene

TWA: 10 mg/m³ 8 hours. Form: fibers Ministry of Employment and Labor (Republic of Korea, 1/2020).

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).

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

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.

controls

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

Environmental exposure controls

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

C. Personal protective equipment

Respiratory protection

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

Eye protection Hand protection

- : 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.

> Korea (GHS) Page: 6/16

Product name SIGMACOVER 850 BASE GREY 5177

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

range

limits

G. Flash point : Closed cup: 29°C (84.2°F)

H. Evaporation rate : Not available. I. 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 : Insoluble in the following materials: cold water.

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

1.45 N. Relative density

O. Partition coefficient: noctanol/water

P. Auto-ignition

: Not applicable.

temperature

Ingredient name °C Method 2-methylpropan-1-ol 415 779

Q. Decomposition : Not available. temperature

: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) R. Viscosity

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

> Korea (GHS) Page: 7/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 10. Stability and reactivity

A. Chemical stability

: The product is stable.

Possibility of hazardous

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

reactions

B. Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition

products.

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

oxidizing agents, strong alkalis, strong acids.

D. Hazardous

decomposition products

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

oxides

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

Potential acute health effects

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 irritation.

Over-exposure signs/symptoms

Inhalation : No specific data.Ingestion : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
aluminium oxide	LC50 Inhalation Dusts and	Rat	7.6 mg/l	4 hours
	mists		45000 "	
	LD50 Oral	Rat	>15900 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
• •	LD50 Oral	Rat	>2000 mg/kg	-

Korea (GHS) Page: 8/16

Product code 00446613 Date of issue 8/13/2021 (month/day/year) Version 1
Product name SIGMACOVER 850 BASE GREY 5177

Section 11. Toxicological information

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	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m³	4 hours
-	mists			
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 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	-
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
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
, , , , , ,	Eyes - Moderate irritant	Rabbit	-	_	_
	Eyes - Mild irritant	Rabbit	_	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2	_
Xylene	Skin - Moderate irritant	Rabbit	-	mg 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.

Korea (GHS) Page: 9/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 11. Toxicological information

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
Talc, not containing asbestiform fibers	Category 3	-	Respiratory tract irritation
Xylene 2-methylpropan-1-ol	Category 3 Category 3	-	Narcotic effects Respiratory tract
	Category 3		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
benzyl alcohol	ASPIRATION HAZARD - Category 2
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.Reproductive toxicity: No known significant effects or critical hazards.

Additional information

Korea (GHS) Page: 10/16

Product code 00446613 Dat	ate of issue 8/13/2021	(month/day/year)	Version 1
---------------------------	------------------------	------------------	-----------

Product name SIGMACOVER 850 BASE GREY 5177

Section 11. Toxicological 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.

crystalline silica, respirable powder (<10 microns) reaction product: bisphenol-A- (epichlorhydrin); epoxy resin CAS: 25068-38-6 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SRIN SENSITIZATION - Category 2 SRIN SENSITIZATION - Category 2 SRIN SENSITIZATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 4 ACUTE TOXICITY (carl) - Category 4 ACUTE TOXICITY (minalation) - Category 4 ACUTE TOXICITY (Chemical name	Identifiers	GHS Classification
(epichlorhydrin); epoxy resin SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SIKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (idermal) - Category 4 ACUTE TOXICITY (idermal) - Category 4 SKIN CORROSION/IRRITATION - Category 4 SKIN CORROSION/IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (Narcotic effects) - Category 2 SKIN SENSITIZATION - Category 1 SKIN SCORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 4 ACUTE TOXICITY (inhalation) - Category 2 ASPIRATION HAZARD - Category 2		CAS: 14808-60-7	CARCINOGENICITY - Category 1A
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (Inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (Narcotic effects) - Category 2 SKIN CORROSION/IRRITATION - Category 3 CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 3 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 ASPIRATION HAZARD - Category 3 ASPIRATI		CAS: 25068-38-6	SKIN CORROSION/IRRITATION - Category 2
Talc, not containing asbestiform fibers CAS: 14807-96-6 CAS: 14807-96-6 CAS: 1344-28-1 Xylene CAS: 1330-20-7 ACUATIC HAZARD (LONG-TERM) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Not classified. FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 4 ACUTE TOXICITY (Grama) - Category 4 ACUTE TOXICITY (Grama) - Category 4 ACUTE TOXICITY (Inhalation) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRA			
Talc, not containing asbestiform fibers CAS: 14807-96-6 SPECIFIC TARGET ORGAN TOXICITY (SINĞLE EXPOSURE) (Respiratory tract irritation) - Category 3 Not classified. Xylene CAS: 1344-28-1 CAS: 1330-20-7 CAS: 1344-28-1 CAS: 1330-20-7 SIN CORROSION/IRRITATION - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SACIO CAS: 13463-67-7 CAS: 13463-67-7 CAS: 25036-25-3 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 4 ACUTE TOXICITY (RESPIRATION - CATEGORY 4 ACUTE TOXICITY (Inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ACUTE TOXICITY (Inhalation) - Category 4 ACUTE TOXICITY (Inhalation) - Category 2 Not classified.			SKIN SENSITIZATION - Category 1
aluminium oxide Xylene CAS: 1344-28-1 CAS: 1330-20-7 CAS: 1330-20-7 CAS: 1330-20-7 CAS: 1330-20-7 ELAMMABLE LIQUIDS - Category 3 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) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 SKIN SENSITIZATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOX	Talc, not containing asbestiform fibers	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -
ACUTE TOXICITY (dermal) - Čategory 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) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPICATION HAZARD - Category 4 ACUTE TOXICITY (demai) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2	aluminium oxide	CAS: 1344-28-1	
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) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SCHOOLOGE EXPOSURE (NOGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - CATEG	Xylene	CAS: 1330-20-7	
Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 CAS: 25036-25-3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2			ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2
SPEČIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 3 ASPIRATION HAZARD (LONG-TERM) - Category 3 CAS: 25036-25-3 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			
Phenol, methylstyrenated CAS: 68512-30-1 Phenol, methylstyrenated CAS: 68512-30-1 CAS: 68512-30-1 Exposure (Tools) (Repeated by Skin Sensitization - Category 2 Skin Sensitization - Category 3 Category 2 Skin Sensitization - Category 3 Category 2 Category 2 Skin Sensitization - Category 2 Category 2 Skin Sensitization - Category 2 Skin Sensitization - Category 2 Senious Eye Damage/Eye Irritation - Category 2 Senious Eye Damage/Eye Irritation - Category 2 Skin Sensitization - Category 1 Flammable Liquids - Category 3 Skin Corrosion/Irritation - Category 2 Senious Eye Damage/Eye Irritation - Category 1 Flammable Eigenia Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) - Category 3 Senious Eye Damage/Eye Irritation - Category 3 Senious Eye Damage/Eye Irritation - Category 3 Senious Eye Organ Toxicity (Single Exposure) (Narcotic effects) - Category 3 Aspiration Hazard - Category 4 Acute Toxicity (demai) - Category 4 Acute Toxicity (demai) - Category 4 Senious Eye Damage/Eye Irritation - Category 2 Senious Eye Dam			SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Phenol, methylstyrenated CAS: 68512-30-1 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3 CAS: 13463-67-7 CAS: 25036-25-3 Epoxy Resin (700 <mw<=1100) (dermal)="" (inhalation)="" (narcotic="" (oral)="" (respiratory="" (single="" -="" 1="" 2="" 25036-25-3="" 2<="" 3="" 4="" acute="" aspiration="" carcinogenicity="" cas:="" category="" corrosion="" damage="" effects)="" exposure)="" eye="" flammable="" hazard="" irritation="" irritation)="" liquids="" organ="" sensitization="" serious="" skin="" specific="" target="" td="" toxicity="" tract=""><td></td><td></td><td></td></mw<=1100)>			
titanium dioxide Epoxy Resin (700 <mw<=1100) (700<mw<="1100)" (respir<="" (respiratory="" -="" 1="" 13463-67-7="" 2="" 25036-25-3="" 3="" 4="" cas:="" category="" corrosion="" epoxy="" exin="" exposure="" irritation="" irritation)="" resin="" td="" tract=""><td>Phonol mothylatyranatod</td><td>CAS: 69512 20 1</td><td></td></mw<=1100)>	Phonol mothylatyranatod	CAS: 69512 20 1	
titanium dioxide Epoxy Resin (700 <mw<=1100) (inhalation)="" (narcotic="" (oral)="" (respiratory="" (single="" -="" 1="" 13463-67-7="" 2="" 25036-25-3="" 3="" 4="" acute="" aspiration="" carcinogenicity="" cas:="" category="" classified.<="" corrosion="" damage="" effects)="" exposure)="" eye="" flammable="" hazard="" irritation="" irritation)="" liquids="" not="" organ="" sensitization="" serious="" skin="" specific="" target="" td="" toxicity="" tract=""><td>Friendi, methylstyrenated</td><td>CAS. 00312-30-1</td><td>SKIN SENSITIZATION - Category 1</td></mw<=1100)>	Friendi, methylstyrenated	CAS. 00312-30-1	SKIN SENSITIZATION - Category 1
Epoxy Resin (700 <mw<=1100) (dermal)="" (inhalation)="" (narcotic="" (respiratory="" (single="" -="" 1="" 2="" 25036-25-3="" 2<="" 3="" 4="" acute="" aspiration="" cas:="" category="" corrosion="" damage="" effects)="" exposure)="" eye="" flammable="" hazard="" irritation="" irritation)="" liquids="" organ="" sensitization="" serious="" skin="" specific="" target="" td="" toxicity="" tract=""><td>titanium diovide</td><td>CAS: 13/63-67-7</td><td></td></mw<=1100)>	titanium diovide	CAS: 13/63-67-7	
2-methylpropan-1-ol CAS: 78-83-1 FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			SKIN CORROSION/IRRITATION - Category 2
2-methylpropan-1-ol CAS: 78-83-1 SKIN SENSITIZATION - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			
SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			SKIN SENSITIZATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 Not classified.	2-methylpropan-1-ol	CAS: 78-83-1	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			SERIOUS EYE DAMAGE/ EYE IRRITATION -
EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 benzyl alcohol CAS: 100-51-6 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			EXPOSURE) (Respiratory tract irritation) -
benzyl alcohol CAS: 100-51-6 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			SPECIFIC TARGET ORGAN TOXICITY (SINGLE
benzyl alcohol CAS: 100-51-6 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.			
ACUTE TOXICITY (inhalation) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 Not classified.	benzyl alcohol	CAS: 100-51-6	ACUTE TOXICITY (oral) - Category 4
SERIOUS EYE DAMAGE/ EYÉ IRRITATION - Category 2 ASPIRATION HAZARD - Category 2 glass, oxide, chemicals CAS: 65997-17-3 Not classified.			
glass, oxide, chemicals ASPIRATION HAZARD - Category 2 Not classified.			SERIOUS EYE DAMAGE/ EYE IRRITATION -
glass, oxide, chemicals CAS: 65997-17-3 Not classified.			
crystalline silica, respirable powder (>10 CAS: 14808-60-7 CARCINOGENICITY - Category 1A		CAS: 65997-17-3	
	crystalline silica, respirable powder (>10	CAS: 14808-60-7	CARCINOGENICITY - Category 1A

Korea (GHS) Page: 11/16

Product code 00446613 Product name SIGMACOVER 850 BAS		issue 8/13/2021 (month/day/year) Version 1		
Section 11. Toxicological information				
microns) 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and	CAS: 220926-97-6	ACUTE TOXICITY (inhalation) - Category 4		
hexamethylenediamine ethylbenzene	CAS: 100-41-4	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 FLAMMABLE LIQUIDS - Category 2		
		ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3		

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
aluminium oxide	Acute LC50 >100 mg/l	Fish	96 hours
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
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
,	Acute EC50 >100 mg/l	Daphnia - 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
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Ó Daphnia - Ceriodaphnia dubia	48 hours

B. Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Ready	9 % - Not readily - 29 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

Korea (GHS) Page: 12/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 12. Ecological information

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

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
Xylene Phenol, methylstyrenated 2-methylpropan-1-ol	3.12 3.627	7.4 to 18.5	low low
benzyl alcohol 12-hydroxyoctadecanoic	0.87 >6	-	low low high
acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine			
ethylbenzene	3.6	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.

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.

Korea (GHS) Page: 13/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	III	III	III
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN : None identified.IMDG : None identified.IATA : None identified.

F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture) : None of the components are listed.

ISHA article 118 (Harmful substances requiring permission) : None of the components are listed.

Article 2 of Youth Protection Act on Substances Hazardous

to Youth

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

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Korea (GHS) Page: 14/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 15. Regulatory information

crystalline silica, respirable powder (<10 microns)

Talc, not containing asbestiform fibers

aluminium oxide

Xvlene

titanium dioxide

2-methylpropan-1-ol

glass, oxide, chemicals

crystalline silica, respirable powder (>10 microns)

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

ethylbenzene

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs: None of the components are listed.

ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work

Environment Measurement) ISHA Enforcement Regs

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

up)

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

: The following components are listed: Aluminum and its compounds, Xylene, Isobutyl alcohol, Glass fiber dusts, Ethyl benzene

: The following components are listed: quartz, talc / soapstone, aluminum and its

compounds, xylene, titanium dioxide, isobutyl alcohol, quartz, ethyl benzene

: The following components are listed: aluminum and its compounds, xylene, titanium dioxide, isobutyl alcohol, ethyl benzene

B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI)

: The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Aluminium and its compounds, Xylene including o-,m-,pisomer, Ethylbenzene

CCA Article 18 Prohibited (K-Reach

Article 27)

: None of the components are listed.

CCA Article 19 Subject to authorization (K-

Reach Article 25)

CCA Article 20 Restricted (K-Reach

Article 27)

: None of the components are listed.

: None of the components are listed.

CCA Article 20 Toxic

Chemicals (K-Reach

Article 20)

: Not applicable

Korea inventory CCA Article 39

(Accident Precaution

Chemicals)

: All components are listed or exempted.

: None of the components are listed.

Korea (GHS) Page: 15/16

Product name SIGMACOVER 850 BASE GREY 5177

Section 15. Regulatory information

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

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

Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

D. <u>Wastes regulation</u>: 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).

gulations specific for

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

: 8/13/2021

C. Version : 1
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