SAFETY DATA SHEET



Date of issue 5/18/2021 (month/day/year)

Version 3

Section 1. Chemical product and company identification

A. Product name : SIGMACOVER 410 BASE-Y BASE APS (9023)

Product code : 00427097

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 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

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (ACUTE) - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1

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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Section 2. Hazards identification

Hazard statements

: 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.

H361 - Suspected of damaging fertility or the unborn child.

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

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

H410 - Very toxic 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 : P391 - Collect spillage.

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

: Zauses digestive tract burns. Prolonged or repeated contact may dry skin and

cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
rystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	30 - <40
silicon dioxide	SILICA	CAS: 7631-86-9	5 - <10
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	5 - <10
crystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	5 - <10
Nonylphenols	4-nonylphenol, branched	CAS: 84852-15-3	1 - <5
magnesium oxide	MAGNESIUM OXIDE	CAS: 1309-48-4	1 - <5
Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)</td><td>CAS: 25036-25-3</td><td>1 - <5</td></mw<=1100)<>	EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)	CAS: 25036-25-3	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5

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Section 3. Composition/information on ingredients

Xylene	XYLENES	CAS: 1330-20-7	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
2-methylpropan-1-ol	ISOBUTYL ALCOHOL	CAS: 78-83-1	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
Nonylphenols	Phenol, 2-nonyl-, branched	CAS: 91672-41-2	0.1 - <1
carbon black	CARBON BLACK	CAS: 1333-86-4	0.1 - <1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

A. Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running
	water for at least 15 minutes, keeping eyelids open. Seek immediate medical

attention.

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: 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

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

Unsuitable

extinguishing media

: Do not use water jet.

B. Specific hazards arising from the chemical

: Mammable 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 very toxic 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.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

metal oxide/oxides

C. Special equipment for fire-fighting

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire-fighting procedures

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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. Collect spillage.

C. Methods and materials for containment and cleaning up

Small spill

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

Large spill

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

Section 7. Handling and storage

A. Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). 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. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated.

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Section 7. Handling and storage

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

Ingredient name	Exposure limits
rystalline silica, respirable powder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m³ 8 hours. Form: Respirable fraction
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
magnesium oxide	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours.
titanium dioxide	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.
2-methylpropan-1-ol	TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020).
ethylbenzene	TWA: 50 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes.
carbon black	TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 3.5 mg/m³ 8 hours. Form: inhalable fraction

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Section 8. Exposure controls/personal protection

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

B. Appropriate engineering controls

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

Environmental exposure controls

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

C. Personal protective equipment

Respiratory protection

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

Eye protection Hand protection

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

: 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.

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.

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Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid. Color : Gray.

B. Odor Aromatic. [Strong] C. Odor threshold : Not available. : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

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

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

J. Lower and upper : Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

explosive (flammable)

limits

K. Vapor pressure : Not available.

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

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

: 1.73 N. Relative density

O. Partition coefficient: n-

octanol/water

: Not applicable.

P. Auto-ignition : Not available.

temperature

Q. Decomposition : Not available.

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

S. Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability The product is stable.

reactions

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

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

products.

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

oxidizing agents, strong alkalis, strong acids.

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

materials: carbon oxides metal oxide/oxides decomposition products

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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 : Corrosive to the digestive tract. Causes burns.

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:

stomach pains 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
silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Nonylphenols	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
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	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
•	LD50 Oral	Rat	4.3 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
-	mists			

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Section 11. Toxicological information

	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
carbon black	LD50 Oral	Rat	>10 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
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	-
Nonylphenols	Skin - Erythema/Eschar	Rabbit	4	-	-
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
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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Section 11. Toxicological information

Name	Classification	Route of exposure	Target organs
Xylene 2-methylpropan-1-ol	Category 3 Category 3		Narcotic effects Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Name	Result
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1

Potential chronic health effects

General : 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 : Suspected of damaging fertility or the unborn child.

Additional information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Common name	CAS#	GHS Classification
rystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
silicon dioxide	SILICA	CAS: 7631-86-9	Not classified.
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
crystalline silica, respirable	QUARTZ (>10 microns)	CAS:	CARCINOGENICITY - Category 1A

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Section 11. Toxicological information

Dowder (>10 microns) A-nonylphenol, branched A-nonylphenol, and br				1
### ACUTE TOXICITY (oral) - Category 4 SIKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 ACUATIC HAZARD (ACUTE) - Category 1 ACUATIC HAZARD (LONG-TERM) - Category 1 Not classified. ### EPOXY RESIN (AVERAGE MOLECULAR WEIGHT > 700 - <1100) ### EPOXY RESIN (AVERAGE MOLECULAR WEIGHT > 700 - <1100) ### CAS: 1309-48-4 CAS: 25036-25-3 ### SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE; (Respiratory tract initiation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE; (Respiratory tract initiation) - Category 3 ASPIRATION - Category 2 ACUTE TOXICITY (Inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE; (Respiratory tract initiation) - Category 3 ACUTE TOXICITY (Inhalation) - Category 3 ACUTE TOXICITY (Inhalation) - Category		<u> </u>		CORPORING TO METAL OF STATE
ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. Epoxy Resin (700 <mw></mw> FMOLECULAR WEIGHT / 700 - <1100) EPOXY RESIN (AVERAGE MOLECULAR WEIGHT / 700 - <1100) CAS: 1309-48-4 CAS: 25036-25-3 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 3 ACUTE TOXICITY (Inhalation) - Category 4 ACUTE TOXICITY (I	Nonylphenols	4-nonylphenol, branched		CORROSIVE TO METALS - Category 1
SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE RRITATION - Category 2 AQUATIC HAZARD (LONG-TERM) - CAS: 1309-48-4 CAS: 25036-25-3 SKIN CORROSION/IRRITATION - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. SKIN CORROSION/IRRITATION - Category 1 Not classified. SKIN CORROSION/IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 3 SKIN CORROSION/IRRITATION - Category 4 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (inhalatio				ACUTE TOXICITY (oral) - Category 4
### SERIOUS EXE DAMAGE/ EYE ### RRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Not classified. 1309-48-4				
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2-methylpropan-1-ol ISOBUTYL ALCOHOL CAS: 78-83-1 ASPIRATION HAZARD - Category 2 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 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2				
2-methylpropan-1-ol ISOBUTYL ALCOHOL CAS: 78-83-1 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				
78-83-1 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	2 methylpropen 1 ol	ISOBLITYL ALCOHOL	CAS:	
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	z-memyipropan-1-or	ISOBUTTL ALCOHOL		PLAIVIIVIABLE LIQUIDS - Calegory 3
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			10-03-1	SKIN CORROSION/IRRITATION -
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				
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				
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				
(SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2				
irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2				
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2				
(SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 2				
Category 3 ASPIRATION HAZARD - Category 2				
ASPIRATION HAZARD - Category 2				
ethylbenzene ETHYLBENZENE CAS: FLAMMABLE LIQUIDS - Category 2				ASPIRATION HAZARD - Category 2
,	ethylbenzene	ETHYLBENZENE	CAS:	FLAMMABLE LIQUIDS - Category 2

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Section 11. Toxicological information

		100-41-4	
			ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2
			ASPIRATION HAZARD - Category 1
Nonylphenols	Phenol, 2-nonyl-, branched	CAS:	CORROSIVE TO METALS - Category 1
	-	91672-41-2	
			ACUTE TOXICITY (oral) - Category 4
			SKIN CORROSION/IRRITATION -
			Category 1
			SERIOUS EYE DAMAGE/ EYE
			IRRITATION - Category 1
			TOXIC TO REPRODUCTION - Category 2
			AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) -
			Category 1
carbon black	CARBON BLACK	CAS:	CARCINOGENICITY - Category 2
		1333-86-4	0 ,

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
silicon dioxide	Acute LC50 >10000 mg/l	Fish	96 hours
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Nonylphenols	Acute EC50 0.04 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 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
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
Nonylphenols	Acute LC50 0.017 mg/l	Fish - Pleuronectes americanus	96 hours

B. Persistence and degradability

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

C. Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
™ onylphenols	5.4	251.19	low
Xylene	3.12	7.4 to 18.5	low
benzyl alcohol	0.87	-	low
2-methylpropan-1-ol	1	-	low
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.

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	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, 4-nonylphenol, branched)	Not applicable.

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Product name SIGMACOVER 410 BASE-Y BASE APS (9023)

Section 14. Transport information

Additional information

: None identified. UN

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

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

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

Transport in bulk according: Not applicable.

to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 : None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 118 : None of the components are listed.

(Harmful 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:

crystalline silica, respirable powder (<10 microns) crystalline silica, respirable powder (>10 microns)

magnesium oxide titanium dioxide

Xylene

2-methylpropan-1-ol ethylbenzene

carbon black

ISHA Enforcement Regs: None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

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

Environment Measurement) The following components are listed: quartz, silica, quartz, magnesium oxide,

titanium dioxide, xylene, isobutyl alcohol

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Section 15. Regulatory information

Annex 22 (Harmful

Factors Subject to Special Health Check-

up)

control)

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

ISHA Enforcement Regs : The following components are listed: Xylene, Isobutyl alcohol

: The following components are listed: magnesium oxide, titanium dioxide, xylene,

isobutyl alcohol

B. Regulation according to Chemicals Control Act

CCA Article 11 (TRI)

: The following components are listed: Branched 4-nonylphenol, Xylene including o-, m-,p- isomer, Ethylbenzene

CCA Article 18

Prohibited (K-Reach

Article 27)

: None of the components are listed.

: None of the components are listed.

CCA Article 19 Subject to authorization (K-

Reach Article 25)

CCA Article 20 Restricted (K-Reach

Article 27)

CCA Article 20 Toxic Chemicals (K-Reach

Article 20)

: Not applicable

Korea inventory CCA Article 39 (Accident Precaution Chemicals)

: None of the components are listed.

: All components are listed or exempted.

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

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

Threshold: 1000 L Danger category: |||

Signal word: Contact with sources of ignition prohibited

: The following components are listed: nonylphenol, nonylphenol

D. Wastes regulation

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

E. Regulation according to other foreign laws

Safety, health and environmental regulations specific for the product

: No known specific national and/or regional regulations applicable to this product

(including its ingredients).

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Product name SIGMACOVER 410 BASE-Y BASE APS (9023)

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

: 5/18/2021

C. Version : 3
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.

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