SAFETY DATA SHEET



Date of issue 9/27/2024 (month/day/year)

Version 4

Section 1. Chemical product and company identification

A. Product name	: SIGMACOVER 410 LT(N) BASE MIO D/GREY
Product code	: 00437942

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

Product use	: Professional applications, Used by spraying.
Use of the substan mixture	ce/ : Coating.
Uses advised agair	ist : Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Impo information	(680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	one : +82-52-210-8331

Section 2. Hazards identification

MMABLE LIQUIDS - Category 3
N IRRITATION - Category 2
RIOUS EYE DAMAGE - Category 1
N SENSITIZATION - Category 1
RCINOGENICITY - Category 2
ECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
UATIC HAZARD (LONG-TERM) - Category 3

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

B. GHS label elements, including precautionary statements

Symbol :

Signal word

: Danger

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Section 2. Hazards identification

Hazard statements	 H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage. H351 - Suspected of causing 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	3
Prevention	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling.
Response	 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: P403 + P235 - Store in a well-ventilated place. Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in	: Prolonged or repeated contact may dry skin and cause irritation.

classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	CAS: 25068-38-6	10 -<20
Xylene	XYLENES	CAS: 1330-20-7	5 - <10
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
Cashew, nutshell liq.	CASHEW NUTSHELL LIQUID	CAS: 8007-24-7	1 - <5
Phenol, methylstyrenated	Phenol, methylstyrenated	CAS: 68512-30-1	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)		
Epoxy Resin	EPOXY RESIN	CAS: SUB110652	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5

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Section 3. Composition/information on ingredients

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

Α.	Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	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

Extinguishing media		
Suitable extinguishing media	:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
Specific hazards arising from the chemical	:	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides
	Suitable extinguishing media Unsuitable extinguishing media Specific hazards arising from the chemical Hazardous thermal	Suitable extinguishing media:Unsuitable extinguishing media:Specific hazards arising from the chemical:Hazardous thermal:

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Section 5. Fire-fighting measures

C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Fire-fighting procedures	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
C. Methods and materials for	co	ontainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

A. Precautions for safe 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 handling 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.

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Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in a 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		
▼ylene		Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.		
titanium dioxide		Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust		
ethylbenzene		with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.		
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous		
Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommen	Use process enclosures, local exhaust trols to keep worker exposure to airborne ded or statutory limits. The engineering controls st concentrations below any lower explosive on equipment.		
Environmental exposure controls	they comply with the requirements of	process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process ace emissions to acceptable levels.		
Personal protective equip	ment			
Respiratory protection	hazards of the product and the safe workers are exposed to concentrat appropriate, certified respirators. L	d on known or anticipated exposure levels, the e working limits of the selected respirator. If ions above the exposure limit, they must use Jse a properly fitted, air-purifying or air-fed wed standard if a risk assessment indicates this is		
		shield.		

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Section 8. Exposure controls/personal protection

Hand protection	: 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.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Α.	Appearance								
	Physical state	:	Liquid.						
	Color	1	Not available.						
В.	Odor	1	Characteristic.						
С.	Odor threshold	:	Not available.						
D.	рН	:	Not applicable.						
Ε.	Melting/freezing point	:	Not available.						
F.	Boiling point/boiling range	:	>37.78°C (>100°F)						
G.	Flash point	1	Closed cup: 25°C (7	7°F)					
н.	Evaporation rate	1	Not available.						
Т.	Flammability (solid, gas)	:	Not available.						
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	ge: Lower:	1.3% l	Jpper: 13% (t	penzyl ald	cohol)	
К.	Vapor pressure	:		Vapo	r Press	ure at 20°C	Va	oor press	sure at 50°C
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
			ethylbenzene	9.30076	1.2				
L.	Solubility(ies)		Media	Re	sult	<u></u>			ł
	,()	÷.	cold water	No	t soluble	e			
	Solubility in water	:	Not available.						
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Section 9. Physical and chemical properties

- Vapor density Not available. Μ. **Relative density** : 1.8 Ν. Partition coefficient: n-: Not applicable. 0. octanol/water
- **Auto-ignition** Ρ. temperature

Decomposition

Q.

S.

Ingredient name	°C	°F	Method
Phenol, methylstyrenated	>385	>725	DIN 51794

- : Not available.
- temperature Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) R. Flow time (ISO 2431) : Not available. Molecular weight : Not applicable.
- Section 10. Stability and reactivity

Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	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 halogenated compounds metal oxide/oxides

Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

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 damage.		
Over-exposure signs/syn	ptoms		
Inhalation	: No specific data.		

Ingestion : Adverse symptoms may include the following: stomach pains

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Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Eye contact	: Adverse symptoms may include the following: pain watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-(1-methylethylidene)bisphenol	LD50 Dermal	Rabbit	>2 g/kg	-
polymer with (chloromethyl)oxirane				
	LD50 Oral	Rat	>2 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 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	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m ³	4 hours
-	mists			
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

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

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	enol polymer with		-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 UI	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 mg	-
Xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin

: There are no data available on the mixture itself.

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Section 11. Toxicological information

Eyes Respiratory : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Sensitization

ochishization						
Product/ingredient name	Route of exposure	Species	Result			
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	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.				
Mutagonicity						
<u>Mutagenicity</u>						
Conclusion/Summary	: There are no data	a available on the mixture itself.				
Carcinogenicity						
Conclusion/Summary : There are no data available on the mixture itself.						
oonclusion/ouninary	. There are no dat					
Reproductive toxicity						
Conclusion/Summary	: There are no dat	a available on the mixture itself.				
Teratogenicity						
Conclusion/Summary	: There are no dat	a available on the mixture itself.				

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Xylene	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
	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.

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Section 11. Toxicological information

Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity Reproductive toxicity	 No known significant effects or critical hazards. No known significant effects or critical hazards.

Additional information

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

Chemical name	Identifiers	GHS Classification
4'-(1-methylethylidene)bisphenol	CAS: 25068-38-6	SKIN IRRITATION - Category 2
polymer with (chloromethyl)oxirane		
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Cashew, nutshell liq.	CAS: 8007-24-7	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		SKIN IRRITATION - Category 2
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 4
Phenol, methylstyrenated	CAS: 68512-30-1	SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1B
		AQUATIC HAZARD (LONG-TERM) - Category 3
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2</td></mw<=1100)<>	CAS: 25036-25-3	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
Epoxy Resin	CAS: SUB110652	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
benzyl alcohol	CAS: 100-51-6	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		ASPIRATION HAZARD - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3

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Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Chronic NOEC 0.3 mg/l	Daphnia	21 days
titanium dioxide ethylbenzene	Acute LC50 >100 mg/l Fresh water Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 48 hours -

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum	
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	OECD 301F	5 % - 28 d	ays	-		-	
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-	
Product/ingredient name	Aquatic half-lif	e	Photolysis		Biodeg	gradability	
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	-		-		Not rea	ıdily	
Xylene	-		-		Readily	,	
benzyl alcohol	-		-		Readily		
ethylbenzene	-		-	R		Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	2.64 to 3.78	31	Low
Xylene	3.12	7.4 to 18.5	Low
Cashew, nutshell liq.	>4.78	-	High
Phenol, methylstyrenated	3.627	-	Low
benzyl alcohol	0.87	-	Low
ethylbenzene	3.6	79.43	Low

D. <u>Mobility in soil</u> Soil/water partition coefficient (K_{oc})

: Not available.

E. Other adverse effects

: No known significant effects or critical hazards.

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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	ΙΑΤΑ
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
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

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Section 15. Regulatory information

Α.	Regulation according to I	Sŀ	<u>A</u>				
	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	: h	ave an OEL:				
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.				
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene				
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene				
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene				
В.	Regulation according to (Regulation according to Chemicals Control Act					
	Article 11 (TRI)	1	The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Xylene including o-,m-,p- isomer, Ethylbenzene				
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.				
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.				
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.				
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable				

Date of issue 9/27/2024 (month/day/year)

Version 4

Product name SIGMACOVER 410 LT(N) BASE MIO D/GREY

Section 15. Regulatory information

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Section 16. Other information

Α.	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.
В.	First issue date	: 3/27/2020
C.	Date of issue/Date of revision	: 9/27/2024
D.	Version	: 4
	Prepared by	: EHS
Ε.	Other	

Indicates information that has changed from previously issued version.

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