SAFETY DATA SHEET



Date of issue 3/11/2024 (month/day/year)

Version 23

Section 1. Chemical product and company identification

A. Product name : SIGMACOVER 690 BASE LIGHT

Product code : 00141306

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:

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 3

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2

CARCINOGENICITY - Category 1A

TOXIC TO REPRODUCTION - 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

Korea (GHS) Page: 1/16

Product name SIGMACOVER 690 BASE LIGHT

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.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H361 - Suspected of damaging fertility or the unborn child.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

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.

P261 - Avoid breathing 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

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F).

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
s-[4-(2,3-epoxipropoxi)phenyl]propane	Bisphenol A diglycidyl ether	CAS: 1675-54-3	20 - <30
crystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	20 - <30
Aluminium powder (stabilized)	ALUMINUM POWDER	CAS: 7429-90-5	5 - <10
Formaldehyde, polymer with 1,3-dimethylbenzene	FORMALDEHYDE POLYMER WITH 1,3-DIMETHYLBENZENE	CAS: 26139-75-3	5 - <10
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	5 - <10
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
Hydrocarbons, C10-C13, n-alkanes,	Hydrocarbons, C10-C13, n-alkanes,	CAS: 64742-48-9	5 - <10

Korea (GHS) Page: 2/16

Product code 00141306 Date of issue 3/11/2024 (month/day/year) Version 23 Product name SIGMACOVER 690 BASE LIGHT

Section 3. Composition/information on ingredients

isoalkanes, cyclics, < 2% aromatics	isoalkanes, cyclics, < 2% aromatics		
nonylphenols	4-nonylphenol, branched	CAS: 84852-15-3	1 - <5
benzyl alcohol	BENZYL ALCOHOL	CAS: 100-51-6	1 - <5
2,3-epoxypropyl neodecanoate	GLYCIDYL NEODECANOATE	CAS: 26761-45-5	1 - <5
Solvent naphtha (petroleum), heavy	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-94-5	1 - <5
arom.	HEAVY AROMATIC		
Urea, polymer with formaldehyde,	UREA-FORMALDEHYDE RESIN,	CAS: 68002-19-7	1 - <5
butylated	BUTYLATED		
xylene	o-Xylene	CAS: 95-47-6	0.1 - <1
naphthalene	NAPHTHALENE	CAS: 91-20-3	0.1 - <1
nonylphenols	DINONYLPHENOL	CAS: 1323-65-5	<0.1
nonylphenols	Phenol, 2-nonyl-, branched	CAS: 91672-41-2	<0.1

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

3	ection 4. i iist ait	4	ilicasul cs
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.
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	:	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

thoroughly with water before removing it, or wear gloves.

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

See toxicological information (Section 11)

Korea (GHS) Page: 3/16

Date of issue 3/11/2024 (month/day/year) Version 23

Section 5. Fire-fighting measures

A. Extinguishing media

Product code 00141306

Suitable extinguishing media

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

Unsuitable extinguishing media : Do not use water jet.

B. Specific hazards arising from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is 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.

Hazardous thermal decomposition products Decomposition products may include the following materials:

carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

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

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.

> Korea (GHS) Page: 4/16

Product code 00141306

Product name SIGMACOVER 690 BASE LIGHT

Version 23

Section 6. Accidental release measures

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 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. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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
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
Aluminium powder (stabilized)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m³ 8 hours. Form: Dust
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 fibres	Ministry of Employment and Labor (Republic of Korea, 1/2020).

Korea (GHS) Page: 5/16

Product name SIGMACOVER 690 BASE LIGHT

Section 8. Exposure controls/personal protection

TWA: 2 mg/m³ 8 hours. Form: fibers xylene

Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)]

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

Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin.

STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.

Recommended monitoring procedures

naphthalene

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.

Korea (GHS) Page: 6/16

Product name SIGMACOVER 690 BASE LIGHT

Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

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

A. Appearance

Physical state : Liquid. Color : Various B. Odor Aromatic. : Not available. C. Odor threshold Ha .D Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 51.3°C (124.3°F)

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

J. Lower and upper explosive (flammable)

limits

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

K. Vapor pressure

	Vapoi	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Solvent naphtha (petroleum), heavy arom.	1.875	0.25					

L. Solubility(ies)

Media Result cold water Not soluble

Solubility in water : Not available. Vapor density Not available. : 1.43

Relative density

octanol/water

Partition coefficient: n-

: Not applicable.

Auto-ignition

temperature

Ingredient name	°C	°F	Method
Solvent naphtha (petroleum), heavy arom.	220 to 250	428 to 482	ASTM E 659

Decomposition temperature

: Not available.

Korea (GHS) Page: 7/16

Product name SIGMACOVER 690 BASE LIGHT

Section 9. Physical and chemical properties

Q.

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

Flow time (ISO 2431) : Not available.

Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous

reactions

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

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

products.

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

decomposition products materials: carbon oxides nitrogen oxides Formaldehyde. 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 : 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

Korea (GHS) Page: 8/16

Date of issue 3/11/2024 (month/day/year) Version 23

Product name SIGMACOVER 690 BASE LIGHT

Section 11. Toxicological information

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

B. Health hazards

Product code 00141306

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
s-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	_
Aluminium powder (stabilized)	LC50 Inhalation Dusts and	Rat	>5 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>15900 mg/kg	-
Hydrocarbons, C10-C13, n-alkanes,	LD50 Dermal	Rabbit	>5000 mg/kg	-
isoalkanes, cyclics, < 2% aromatics				
-	LD50 Oral	Rat	>6 g/kg	-
nonylphenols	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
Solvent naphtha (petroleum), heavy	LC50 Inhalation Dusts and	Rat	>5.2 mg/l	4 hours
arom.	mists			
	LD50 Oral	Rat	>5 g/kg	-
xylene	LC50 Inhalation Vapor	Rat	27124 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

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

Irritation/Corrosion

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

Conclusion/Summary

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

Sensitization

Korea (GHS) Page: 9/16

Product code 00141306 Date of issue 3/11/2024 (month/day/year) Version 23 Product name SIGMACOVER 690 BASE LIGHT

Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
s-[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)

Name	Classification	Route of exposure	Target organs
rormaldehyde, polymer with 1,3-dimethylbenzene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
kylene	Category 2	-	-

Aspiration hazard

Name	Result
ydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2%	ASPIRATION HAZARD - Category 1
aromatics benzyl alcohol Solvent naphtha (petroleum), heavy arom. xylene	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Potential chronic health effects

	Korea (GHS)	Page: 10/16
--	-------------	-------------

Product name SIGMACOVER 690 BASE LIGHT

Section 11. Toxicological information

General: 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: Suspected of causing genetic defects.

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. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C (140F). Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
bís-[4-(2,3-epoxipropoxi)phenyl]propane	CAS: 1675-54-3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 2
crystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Aluminium powder (stabilized)	CAS: 7429-90-5	FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2
Formaldehyde, polymer with 1,3-dimethylbenzene	CAS: 26139-75-3	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS: 64742-48-9	FLAMMABLE LIQUIDS - Category 4
nonylphenols	CAS: 84852-15-3	ASPIRATION HAZARD - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
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
2,3-epoxypropyl neodecanoate	CAS: 26761-45-5	SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

Korea (GHS) Page: 11/16

Product code	00141306	Date of issue	3/11/2024 (month/day/year)	Version 23
Product name	SIGMACOVER 690 BASE LIGHT			

Section 11. Toxicological information

arom. SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 4 SKIN IRRITATION - Category 4 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (Oral) - Category 4 ACUTE TOXICITY (Oral) - Category 4 ACUTE TOXICITY (Oral) - Category 4 SKIN CORROSION - Category 1 TOXIC TO REPRODUCTION - Category 1 ACUTE TOXICITY (Oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE	Solvent naphtha (petroleum), heavy	CAS: 64742-94-5	AQUATIC HAZARD (LONG-TERM) - Category 2 FLAMMABLE LIQUIDS - Category 4
Urea, polymer with formaldehyde, butylated xylene CAS: 68002-19-7 Urea, polymer with formaldehyde, butylated xylene CAS: 95-47-6 CAS: 96-7 CAS: 91-20-3 CAS: 91-20-3			
Urea, polymer with formaldehyde, butylated xylene CAS: 68002-19-7 CAS: 95-47-6 CAS: 96-7 CAS: 97-20-7 CAS: 97			SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Urea, polymer with formaldehyde, butylated xylene CAS: 68002-19-7 CAS: 95-47-6 CAS: 97-20-7 CARCINOCATION - Category 1 CAS: 91-20-3 CAS:			EXPOSURE) (Narcotic effects) - Category 3
Urea, polymer with formaldehyde, butylated xylene CAS: 68002-19-7 CAS: 95-47-6 CAS: 95-47-6 CAS: 95-47-6 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 EYE IRRITATION - Category 2 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 2 ASPIRATION HAZARD - Category 2 CAS: 91-20-3 ROUTE TOXICITY (oral) - Category 4 SKIN CORROSIVE TO METALS - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 SCRIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 1			
Urea, polymer with formaldehyde, butylated xylene CAS: 95-47-6 CAS: 91-20-3 CAS: 91			AQUATIC HAZARD (LONG-TERM) - Category 2
xyléne CAS: 95-47-6 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 AQUATIC HAZARD (CONG-TERM) - Category 1 ACUTE TOXICITY (oral) -		CAS: 68002-19-7	AQUATIC HAZARD (LONG-TERM) - Category 4
ACUTE TOXICITY (inhalation) - Ćategory 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 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 (REPEATED EXPOSURE) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 4 CARCINOGENICITY - Category 4 CARCINOGENICITY - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 CORROSIVE TO METALS - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 AQUATIC HAZARD (COUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1		CAS: 95-47-6	FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral)	Aylone	0/10:00 4/ 0	
EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 2 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 4 CARCINOGENICITY - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 CORROSION - CATEGORY			
TOXIC TO REPRODUCTION - Category 2 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - 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 (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 ACUTE TOXICITY (oral) - Category 1 CORROSIVE TO METALS - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 ACUTE TOXICITY (oral) - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 CORROSIVE TO METALS - Category 1 TOXIC TO REPRODUCTION - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
SPEČIFÍC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 ACUTE TOXICITY (oral) - Category 1 CORROSIVE TO METALS - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 CORROSIVE TO METALS - Category 1 SERIOUS EYE DAMAGE - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
(REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 ACUTE TOXICITY (oral) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 ACUTE TOXICITY (oral) - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
ASPIRATION HAZARD - Category 1 naphthalene CAS: 91-20-3 CAS: 91-20-3 CAS: 91-20-3 CAS: 91-20-3 CAS: 91-20-3 CAS: 91-20-3 CAS: 1323-65-5 CAS: 91672-41-2			
naphthalene CAS: 91-20-3 FLAMMABLE SOLIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 2 CAS: 1323-65-5 CAS:			
nonylphenols CAS: 1323-65-5 CARCINOGENICITY (oral) - Category 1 TOXIC TO REPRODUCTION - Category 1 CORROSIVE TO METALS - Category 1 CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1	naphthalene	CAS: 91-20-3	
nonylphenols CAS: 1323-65-5 CARCINOGENICITY - Category 2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1	, i		
nonylphenols CAS: 1323-65-5 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1	nonylphenols	CAS: 1323-65-5	
SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			ACUTE TOXICITY (oral) - Category 4
TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			SERIOUS EYE DAMAGE - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1 CAS: 91672-41-2 CAS: 91672-41-2 CAS: 91672-41-2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			TOXIC TO REPRODUCTION - Category 2
nonylphenols CAS: 91672-41-2 CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			AQUATIC HAZARD (ACUTE) - Category 1
ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			AQUATIC HAZARD (LONG-TERM) - Category 1
SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1	nonylphenols	CAS: 91672-41-2	CORROSIVE TO METALS - Category 1
SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			ACUTE TOXICITY (oral) - Category 4
TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1			
AQUATIC HAZARD (ACUTE) - Category 1			SERIOUS EYE DAMAGE - Category 1
AQUATIC HAZARD (LONG-TERM) - Category 1			AQUATIC HAZARD (LONG-TERM) - Category 1

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
s-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - daphnia magna	48 hours
7 11 1	Chronic NOEC 0.3 mg/l	Daphnia	21 days
nonylphenols	Acute EC50 0.044 mg/l	Crustaceans - Moina macrocopa	48 hours
	Acute LC50 0.221 mg/l	Fish	96 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
Solvent naphtha	NOEL 0.48 mg/l Fresh water	Daphnia	21 days

Korea (GHS) Page: 12/16

Product code 00141306 Date of issue 3/11/2024 (month/day/year) Version 23
Product name SIGMACOVER 690 BASE LIGHT

Section 12. Ecological information

(petroleum), heavy arom.			
nonylphenols	Acute LC50 0.017 mg/l	Fish - <i>Pleuronectes americanus</i>	96 hours

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
x ylene	OECD 301F	94 % - Re	adily - 28 days	-		-
Product/ingredient name	Aquatic half-lif	ie	Photolysis		Biode	gradability
s-[4-(2,3-epoxipropoxi) phenyl]propane	-		-		Not rea	adily
benzyl alcohol 2,3-epoxypropyl	-		-		Readily Not rea	
neodecanoate xvlene	_		_		Readily	I

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
nonylphenols	5.4	251.19	Low
benzyl alcohol	0.87	-	Low
2,3-epoxypropyl neodecanoate	4.4	-	High
Solvent naphtha	2.8 to 6.5	-	High
(petroleum), heavy arom.			
xylene	3.12	14.13	Low
naphthalene	3.4	85.11	Low

D. Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

E. Other adverse effects : N

: 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

Date of issue 3/11/2024 (month/day/year) Version 23

Product name SIGMACOVER 690 BASE LIGHT

Product code 00141306

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)	Not applicable.

Additional information

UN : None identified.

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 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

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

to Youth

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Korea (GHS) Page: 14/16

Product name SIGMACOVER 690 BASE LIGHT

Section 15. Regulatory information

rystalline silica, respirable powder (>10 microns)

Aluminium powder (stabilized)

crystalline silica, respirable powder (<10 microns)

Talc, not containing asbestiform fibres

xvlene naphthalene

ISHA Enforcement Regs: None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs Annex 21 (Harmful

factors subject to Work **Environment**

Measurement)

ISHA Enforcement Regs : The following components are listed: Aluminum and its compounds

Annex 22 (Harmful Factors Subject to Special Health Checkup)

Standard of Industrial

Safety and Health Annex 12 (Hazardous substances subject to control)

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

: The following components are listed: aluminum and its compounds

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: Aluminium and its compounds, Branched

4-nonylphenol, Naphthalene

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)

: The following components are listed: nonylphenols

Article 20 Toxic Chemicals (K-Reach

Article 20)

: Toxic

Korea inventory

: At least one component is not listed.

Article 39 (Accident Precaution Chemicals) : The following components are listed: nonylphenols

C. Dangerous Materials **Safety Management Act** : 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. Wastes regulation Dispose of contents and container in accordance with all local, regional, national

and international regulations.

E. Regulation according to other foreign laws

Korea (GHS) Page: 15/16

Product name SIGMACOVER 690 BASE LIGHT

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

A. References : Korean Ministry of Environment; Chemical Control Act

Korean Ministry of Labor; Industrial Safety and Health Act

NIER Notice

Registry of Toxic Effects of Chemical Substances (RTECS)

U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information

Retrieval) ECOTOX Database System.

B. Date of issue/Date of

revision

: 3/11/2024

C. Version : 23
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