# SAFETY DATA SHEET



Date of issue 9/26/2024 (month/day/year)

Version 2

## Section 1. Chemical product and company identification

A. Product name<br/>Product code: SIGMASHIELD 1090 BASE GREY 3.75G 1225<br/>: 00445474

B. Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/	: Coating.

	mixture		
	Uses advised against	1	Product is not intended, labelled or packaged for consumer use.
С	Supplier's or Importer's information	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone	:	<b>⊁</b> 82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: ACUTE TOXICITY (inhalation) - Category 4
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 2
	CARCINOGENICITY - Category 1A
	AQUATIC HAZARD (LONG-TERM) - Category 3
This product is clossified in a	apardance with the Industrial Sofety and Health Ast and the Chemical Control Ast

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

number:



Signal word

: Danger

Date of issue 9/26/2024 (month/day/year)

Version 2

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

#### Section 2. Hazards identification

Hazard statements	<ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H341 - Suspected of causing genetic defects.</li> <li>H350 - May cause cancer.</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary stateme	ents
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: Not applicable.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

C. Other hazards which do : None known. not result in classification

## Section 3. Composition/information on ingredients

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

**CAS number** : Not applicable.

Chemical name	Common name	Identifiers	%
vystalline silica, respirable powder (>10 microns)	QUARTZ (>10 microns)	CAS: 14808-60-7	70 - <80
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	EPOXY RESIN	CAS: 25068-38-6	10 -<20
2,3-epoxypropyl neodecanoate	GLYCIDYL NEODECANOATE	CAS: 26761-45-5	1 - <5
benzyl alcohol titanium dioxide	BENZYL ALCOHOL TITANIUM DIOXIDE	CAS: 100-51-6 CAS: 13463-67-7	1 - <5 1 - <5

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.

Date of issue 9/26/2024 (month/day/year)

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## Section 4. First aid measures

Α.	Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
C.	Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

V		-
Extinguishing media Suitable extinguishing	:	Use an extinguishing agent suitable for the surrounding fire.
media		
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst. 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
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.

Date of issue 9/26/2024 (month/day/year)

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

### 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
C. Methods and materials for o	co	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
в.	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 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. 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.

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

	Ingredient name			Exposure limits	
	rystalline silica, respirable	e po	owder (>10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust with less than 1% of free SiO2	
	Recommended monitoring procedures	:		iate monitoring standards. Reference to ods for the determination of hazardous	
В.	Appropriate engineering controls	:	Use only with adequate ventilation. Us ventilation or other engineering control contaminants below any recommende	s to keep worker exposure to airborne	
	Environmental exposure controls	:			
С.	Personal protective equip	m	ent		
	Respiratory protection	:	hazards of the product and the safe w workers are exposed to concentration appropriate, certified respirators. Use	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed d standard if a risk assessment indicates this is	
	Eye protection		Chemical splash goggles.		
	Hand protection	:	be worn at all times when handling ch this is necessary. Considering the pa check during use that the gloves are s should be noted that the time to break different for different glove manufactu	s complying with an approved standard should emical products if a risk assessment indicates rameters specified by the glove manufacturer, still retaining their protective properties. It through for any glove material may be rers. In the case of mixtures, consisting of the of the gloves cannot be accurately	
	Gloves	:	butyl rubber		
	Body protection	:		body should be selected based on the task d and should be approved by a specialist	
	Hygiene measures	:	Wash hands, forearms and face thoro eating, smoking and using the lavator Appropriate techniques should be use Contaminated work clothing should no	bughly after handling chemical products, before y and at the end of the working period. In the end of the working period. In the allowed out of the workplace. Wash Ensure that eyewash stations and safety ocation.	

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

### Section 9. Physical and chemical properties

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

mm Hg

0.11251

kPa

0.015

Not soluble

Result

Α.	Appearance				
	Physical state	:	Liquid.		
	Color	:	Gray.		
В.	Odor	1	Characteristic.		
С.	Odor threshold	1	Not available.		
D.	рН	1	Not applicable.		
Ε.	Melting/freezing point	:	Not available.		
- <b>F</b> .	Boiling point/boiling	:	>37.78°C (>100°F)		
	range				
G.	Flash point	4	Closed cup: Not appli	icable.	
Н.	Evaporation rate	:	Not available.		
П.	Flammability (solid, gas)	:	Not available.		
J.	Lower and upper explosive (flammable) limits	:	Greatest known rang	e: Lower: 1.3% Upper: 13% (be	nzyl alcohol)
К.	Vapor pressure	:		Vapor Pressure at 20°C	Vapor pressure at 50°C

**Ingredient name** 

2,3-epoxypropyl neodecanoate

Media

cold water

: Not available.

Not available.

: Not applicable.

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: 1.72

L. Solubility(ies)	
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So	lubi	lity	in	wat	er
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- Vapor density Μ.
- **Relative density** Ν.
- Partition coefficient: n-
- О. octanol/water
- **Auto-ignition** Ρ. temperature

Ingredient name	°C	°F	Method
2,3-epoxypropyl neodecanoate	276	528.8	

Method

kPa

mm Hg

Method

**Decomposition** Q. temperature

Viscosity

- : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- R. Flow time (ISO 2431)
- **Molecular weight** S.
- : Not available.
- : Not applicable.

: Not available.

Date of issue 9/26/2024 (month/day/year)

Version 2

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## 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 t routes of expos	
Potential acute hea	alth effects
Inhalation	: Harmful if inhaled.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
<u>Over-exposure sig</u>	ns/symptoms
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
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
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
2,3-epoxypropyl neodecanoate	LD50 Dermal	Rat	3800 mg/kg	-
	LD50 Oral	Rat	9.6 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
,	mists		Ū	
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 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	-
			Korea (GHS)	Page: 7/13

Date of issue 9/26/2024 (month/day/year)

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 Ul	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 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
4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	skin	Mouse	Sensitizing
		available on the mixture itself. available on the mixture itself.	
<u>Mutagenicity</u> 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.	
<u>Teratogenicity</u> Conclusion/Summary :	There are no data	available on the mixture itself.	
Specific target organ toxicity Not available.	<u>y (single exposure</u>	D D	
Specific target organ toxicity Not available.	<u>y (repeated expos</u> i	ure)	

#### Aspiration hazard

Date of issue 9/26/2024 (month/day/year)

Version 2

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

### Section 11. Toxicological information

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity Mutagenicity	<ul> <li>May cause cancer. Risk of cancer depends on duration and level of exposure.</li> <li>Suspected of causing genetic defects.</li> </ul>
Reproductive toxicity	: No known significant effects or critical hazards.

#### Additional information

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.

Chemical name	Identifiers	GHS Classification
vystalline silica, respirable powder (>10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane	CAS: 25068-38-6	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
2,3-epoxypropyl neodecanoate	CAS: 26761-45-5	SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2
		AQUATIC HAZARD (LONG-TERM) - Category 2
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
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2

## 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
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
titanium dioxide	Acute EC50 4.8 mg/l Acute LC50 9.6 mg/l Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i> Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 48 hours

#### B. Persistence and degradability

Korea (GHS) Page: 9/13

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## Section 12. Ecological information

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Product/ingredient name	Test	Result		Dose		Inoculum
4.4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	OECD 301F	5 % - 28 d	ays	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
4,4'-(1-methylethylidene) bisphenol polymer with (chloromethyl)oxirane	-		-		Not rea	,
2,3-epoxypropyl neodecanoate benzyl alcohol	-		-		Not rea 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
2,3-epoxypropyl neodecanoate	4.4	-	High
benzyl alcohol	0.87	-	Low

#### D. Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

#### Section 13. Disposal considerations

Α.	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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

#### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
A. UN number Not regulated.		Not regulated.	Not regulated.
B. UN proper - shipping name		-	-
C. Transport - hazard class(es)		-	-
D. Packing group -		-	-
Environmental No. hazards		No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

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

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

Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

Α.	Regulation according to ISHA				
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.			
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.			
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.			
	Exposure Limits of Chem	ical Substances and Physical Factors			
	The following components have an OEL:				

rystalline silica, respirable powder (>10 microns) titanium dioxide

Date of issue 9/26/2024 (month/day/year)

Version 2

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

## Section 15. Regulatory information

	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: quartz, titanium dioxide
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	None of the components are listed.
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide
В.	Regulation according to (	Ch	emicals Control Act
	Article 11 (TRI)	1	The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane
	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
	Korea inventory	:	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	<u>Dangerous Materials</u> <u>Safety Management Act</u>	:	Not applicable.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Е.	Regulation according to c	oth	<u>er foreign laws</u>
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Date of issue 9/26/2024 (month/day/year)

Product name SIGMASHIELD 1090 BASE GREY 3.75G 1225

#### Section 16. Other information

A. References	K N R U	orean Ministry of Environment; Chemical Control Act orean Ministry of Labor; Industrial Safety and Health Act IER Notice egistry of Toxic Effects of Chemical Substances (RTECS) .S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information etrieval) ECOTOX Database System.
B. First issue da	te : 7/	/15/2021
C. Date of issue revision	Date of : 9/	/26/2024
D. Version	: 2	
Prepared by	: E	HS

#### E. 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.