SAFETY DATA SHEET



Date of issue 9/29/2024 (month/day/year) SDS Number: AA00147-5110000031

Version 8.15

Section 1. Chemical product and company identification

A. Product name : SIGMAWELD 165 BINDER

Product code : 00243732

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

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

Email Address

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

Emergency telephone

number:

: +82-52-210-8331

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 2

EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

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

Hazard statements : H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

Precautionary statements

Korea (GHS) Page: 1/13

Product code 00243732 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 2. Hazards identification

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.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P240 - Ground and bond container and receiving equipment.

P261 - Avoid breathing vapor.

Response : P370 + P378 - In case of fire: Never use water to extinguish.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

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 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 - Keep cool.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

C. Other hazards which do

not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name	Common name	Identifiers	%
e thanol	ETHYL ALCOHOL	CAS: 64-17-5	30 -
		FO: 000 F70 C	<40
		EC: 200-578-6	
Isopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	20 -
			<30
		EC: 200-661-7	
Silicic acid, ethyl ester	ETHYL SILICATE POLYMER	CAS: 11099-06-2	20 -
, ,			<30
		EC: 234-324-0	
tetraethyl silicate	Tetraethyl Silicate	CAS: 78-10-4	5 - <10
	,	EC: 201-083-8	
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	5 - <10
	ETHER		
		EC: 203-539-1	
sulfuric acid	SULFURIC ACID	CAS: 7664-93-9	0.1 - <1
	0021 01110 71012	EC: 231-639-5	
		LO. 201-009 - 0	

Korea (GHS) Page: 2/13

Date of issue 9/29/2024 (month/day/year)

Version 8.15

Product name SIGMAWELD 165 BINDER

Product code 00243732

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

A. 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.

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

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

trained personnel.

D. Ingestion : If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

E. Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

A. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

: Do not use water jet.

B. Specific hazards arising from the chemical

: Highly 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.

burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

metal oxide/oxides

C. Special equipment for fire-fighting

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

mode.

Korea (GHS) Page: 3/13

Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 5. Fire-fighting measures

Product code 00243732

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).
- C. Methods and materials for containment and cleaning up

Small spill

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

Large spill

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

Section 7. Handling and storage

- A. Precautions for safe handling
- Put on appropriate personal protective equipment (see Section 8). 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. 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.

Korea (GHS) Page: 4/13 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities

Product code 00243732

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	
<mark>√</mark> ethanol	ISHA Article 42 (Republic of Korea,	
	1/2020)	
	TWA 8 hours: 1000 ppm.	
Isopropyl alcohol	ISHA Article 42 (Republic of Korea,	
	1/2020)	
	STEL 15 minutes: 400 ppm.	
	TWA 8 hours: 200 ppm.	
tetraethyl silicate	ISHA Article 42 (Republic of Korea,	
•	1/2020)	
	TWA 8 hours: 10 ppm.	
1-methoxy-2-propanol	ISHA Article 42 (Republic of Korea,	
	1/2020)	
	STEL 15 minutes: 150 ppm.	
	TWA 8 hours: 100 ppm.	
sulfuric acid	ISHA Article 42 (Republic of Korea,	
	1/2020)	
	TWA 8 hours: 0.2 mg/m³. Form: Thoracic	
	fraction.	
	STEL 15 minutes: 0.6 mg/m³. Form:	
	Thoracic fraction.	

Recommended monitoring procedures

- Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- controls
- B. Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

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

Korea (GHS) Page: 5/13 Product code 00243732 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 8. Exposure controls/personal protection

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 : Chemical splash goggles.

 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 : For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber, nitrile 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.

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 : Not available.

B. Odor : Aromatic.

C. Odor threshold : Not available.

D. pH : Not applicable.E. Melting/freezing point : Not available.

F. Boiling point/boiling : >37.78°C (>100°F)

range

G. Flash point : Closed cup: 14°C (57.2°F)

H. Evaporation rate : Not available.
I. Flammability (solid, gas) : Not available.
J. Lower and upper : Not available.

explosive (flammable)

limits

K. Vapor pressure :

Korea (GHS) Page: 6/13

Date of issue 9/29/2024 (month/day/year)

Version 8.15

Product name SIGMAWELD 165 BINDER

Product code 00243732

Section 9. Physical and chemical properties

Vapor Pressure at 20°C Vapor pressure at 50°C **kPa** Ingredient name mm Hg **kPa** Method mm Method Hg ethanol 42.94865 5.7

Media Result L. Solubility(ies)

> cold water Not soluble

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

Relative density : 0.87

Partition coefficient: n-

octanol/water

Auto-ignition temperature

F	Method
518	

Decomposition

R.

temperature

Viscosity : Dynamic (room temperature): Not available.

: Not available.

: Not applicable.

Kinematic (room temperature): Not available. 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.

reactions

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

B. Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition

products.

C. Incompatible materials

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

oxidizing agents, strong alkalis, strong acids.

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

materials: carbon oxides metal oxide/oxides

Korea (GHS) Page: 7/13 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 11. Toxicological information

A. Information on the likely routes of exposure

Product code 00243732

: Not available.

Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

Ingestion : Can cause central nervous system (CNS) depression.
 Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion : No specific data.

Skin contact : Adverse symptoms may include the following:

irritation dryness cracking

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
•	mists			
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
sulfuric acid	LD50 Oral	Rat	2140 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary

Skin : There are no data available on the mixture itself.

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

Korea (GHS) Page: 8/13

Product code 00243732 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 11. Toxicological information

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

Sensitization

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
Isopropyl alcohol tetraethyl silicate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
1-methoxy-2-propanol	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
Isopropyl alcohol	ASPIRATION HAZARD - Category 2

Potential chronic health effects

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or

dermatitis.

Carcinogenicity: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: No known significant effects or critical hazards.Reproductive toxicity: No known significant effects or critical hazards.

Additional information

Prolonged or repeated contact may dry skin and cause irritation. 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.

Korea (GHS) Page: 9/13

Product code 00243732	Date of issue 9/29/2024 (month/day/year)	Version 8.15
Product name SIGMAWELD 165 BINDER		

Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
e thanol	CAS: 64-17-5 EC: 200-578-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
Isopropyl alcohol	CAS: 67-63-0	FLAMMABLE LIQUIDS - Category 2
	EC: 200-661-7	EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 2
Silicic acid, ethyl ester	CAS: 11099-06-2	EYE IRRITATION - Category 2A
	EC: 234-324-0	
tetraethyl silicate	CAS: 78-10-4	FLAMMABLE LIQUIDS - Category 3
	EC: 201-083-8	ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3
	EC: 203-539-1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
authoric acid	CAC. 7664 02 0	EXPOSURE) (Narcotic effects) - Category 3
sulfuric acid	CAS: 7664-93-9 EC: 231-639-5	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY (inhalation) - Category 2
	LO. 231-039-3	SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 1A

Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
ethanol Isopropyl alcohol 1-methoxy-2-propanol	Acute EC50 7640 mg/l Fresh water Acute EC50 10100 mg/l Fresh water Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Daphnia - <i>Daphnia magna</i> Daphnia Fish	48 hours 48 hours 48 hours 96 hours

B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	Low
Isopropyl alcohol	0.05	-	Low
tetraethyl silicate	3.18	-	Low
1-methoxy-2-propanol	<1	-	Low

D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Korea (GHS) Page: 10/13

Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 12. Ecological information

E. Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

A. Disposal methods

Product code 00243732

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

B. Disposal precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
C. Transport hazard class(es)	3	3	3
D. Packing group	II	II	II
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.

Korea (GHS) Page: 11/13

Product code 00243732 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 14. Transport information

Transport in bulk according: Not applicable.

to IMO instruments

Section 15. Regulatory information

A. Regulation according to ISHA

ISHA article 117 (Harmful substances prohibited from manufacture)

: None of the components are listed.

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

Article 2 of Youth Protection Act on Substances Hazardous to Youth

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

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

Annex 19 (Exposure standards established for harmful factors)

ISHA Enforcement Regs: The following components are listed: sulfuric acid

ISHA Enforcement Regs

Annex 11-5 (Harmful

factors subject to Work **Environment**

: The following components are listed: silicates, isopropyl alcohol

Measurement)

Annex 22 (Harmful Factors Subject to Special Health Check-

ISHA Enforcement Regs : The following components are listed: Isopropyl alcohol

up)

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

: The following components are listed: isopropyl alcohol, sulfuric acid

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: 2-Propanol

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

: Not applicable

Article 20)

Korea (GHS) Page: 12/13 Product code 00243732 Date of issue 9/29/2024 (month/day/year) Version 8.15

Product name SIGMAWELD 165 BINDER

Section 15. Regulatory information

Korea inventory : All components are listed or exempted.

Article 39 (Accident Precaution Chemicals) : None of the components are listed.

C. Dangerous Materials : Class: Class 4 - Flammable Liquid **Safety Management Act**

Item: 2. Class 1 petroleums - Water-insoluble liquid

Threshold: 200 L Danger category: II

Signal word: Contact with sources of ignition prohibited

Dispose of contents and container in accordance with all local, regional, national D. Wastes regulation

and international regulations.

E. Regulation according to other foreign laws

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

the product

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. First issue date : 1/3/2019 9/29/2024 C. Date of issue/Date of

revision

D. Version 8.15 Prepared by : EHS

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.

Korea (GHS) Page: 13/13