# **SAFETY DATA SHEET**



Date of issue 4/28/2025 (month/day/year)

Version 3.01

# Section 1. Chemical product and company identification

A. Product name : SIGMAWELD 190/199 BINDER

**Product code** : 000001011143

Other means of identification

00204216

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

ASPIRATION HAZARD - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 3

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

the Chemical Control Act.

B. GHS label elements, including precautionary statements

Symbol :







Signal word : Danger

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**Product name SIGMAWELD 190/199 BINDER** 

#### Section 2. Hazards identification

**Hazard statements**: H225 - Highly flammable liquid and vapor.

H305 - May be harmful if swallowed and enters airways.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

H412 - Harmful 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.

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.

P273 - Avoid release to the environment.

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. P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor. Do NOT induce vomiting.

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.

: 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

**Storage** 

: 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	%
Isopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	40 - <50
		EC: 200-661-7	
Silicic acid, ethyl ester	ETHYL SILICATE POLYMER	CAS: 11099-06-2	20 - <30
		EC: 234-324-0	
Propylene glycolmonomethyl ether	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	10 -<20
		EC: 203-539-1	
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Section 3. Comp	osition/information on ingr	edients	
Ethyl silicate	Tetraethyl Silicate	CAS: 78-10-4 EC: 201-083-8	5 - <10
Ethanol	ETHYL ALCOHOL	CAS: 64-17-5 EC: 200-578-6	0.1 - <1
sulfuric acid	SULFURIC ACID	CAS: 7664-93-9 EC: 231-639-5	0.1 - <1
zinc chloride	ZINC CHLORIDE	CAS: 7646-85-7 FC: 231-592-0	<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

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.

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# Section 5. Fire-fighting measures

from the chemical

Product code 000001011143

B. Specific hazards arising : 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. 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 metal oxide/oxides

C. Special equipment for fire-fighting

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

Fire-fighting procedures :

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

### Section 6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

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

**B. Environmental** precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 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.

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# 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 swallow. 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
Isopropyl alcohol	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 400 ppm.
	TWA 8 hours: 200 ppm.
Propylene glycolmonomethyl ether	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
Ethyl silicate	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 ppm.
Ethanol	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 1000 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.
zinc chloride	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 2 mg/m³. Form: Fume.
	TWA 8 hours: 1 mg/m³. Form: Fume.

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# Section 8. Exposure controls/personal protection

# 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.
- 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

: Chemical splash goggles.

: Chamical resistant impa

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: nitrile rubber, butyl rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. 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 : Colorless.

B. Odor : Aromatic.

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# Section 9. Physical and chemical properties

: Not available. C. Odor threshold D. pH Not applicable. Not available. E. Melting/freezing point F. Boiling point/boiling : >37.78°C (>100°F)

range

Closed cup: 15°C (59°F) G. Flash point

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

explosive (flammable) limits

K. Vapor pressure

Vapor Pressure at 20°C Vapor pressure at 50°C Method **kPa Method** Ingredient name mm Hg **kPa** mm Hg 33.00268 4.4 Isopropyl alcohol

Media Result L. Solubility(ies)

cold water Not soluble

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

**Relative density** 0.88

Partition coefficient: n-

octanol/water

**Auto-ignition** temperature

**Decomposition** 

temperature

: Not available.

: Not applicable.

: 270°C (518°F)

: Dynamic (room temperature): Not available. **Viscosity** R.

Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): <14 mm<sup>2</sup>/s (<14 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.

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## Section 10. Stability and reactivity

D. Hazardous : Depending on conditions, decomposition products may include the following decomposition products materials: carbon oxides metal oxide/oxides

# **Section 11. Toxicological information**

A. Information on the likely routes of exposure

: 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. May be harmful if swallowed and

enters airways.

**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**: Adverse symptoms may include the following:

nausea or vomiting

**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
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
Propylene glycolmonomethyl ether	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Ethyl 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	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	_
	LD50 Oral	Rat	7 g/kg	-
sulfuric acid	LD50 Oral	Rat	2140 mg/kg	-
zinc chloride	LD50 Oral	Rat	0.35 g/kg	-

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# **Section 11. Toxicological information**

**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.
 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 Propylene glycolmonomethyl ether Ethyl silicate	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation
Ethanol	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

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

#### **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.

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### **Section 11. Toxicological information**

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

#### **Additional information**

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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.

Chemical name	Identifiers	GHS Classification
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	
Propylene glycolmonomethyl ether	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3
	EC: 203-539-1	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
Ethyl silicate	CAS: 78-10-4	FLAMMABLE LIQUIDS - Category 3
	EC: 201-083-8	ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
		Category 3
Ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
	EC: 200-578-6	EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 2
sulfuric acid	CAS: 7664-93-9	CORROSIVE TO METALS - Category 1
	EC: 231-639-5	ACUTE TOXICITY (inhalation) - Category 2
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 1A
zinc chloride	CAS: 7646-85-7	ACUTE TOXICITY (oral) - Category 4
	EC: 231-592-0	SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1

# **Section 12. Ecological information**

#### A. **Ecotoxicity**

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# **Section 12. Ecological information**

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute EC50 10.1 g/L Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
Propylene	Acute LC50 23300 mg/l	Daphnia	48 hours
glycolmonomethyl ether			
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
zinc chloride	Acute EC50 22 µg/l Fresh water	Algae - Raphidocelis	72 hours
		subcapitata - Exponential	
		growth phase	
	Acute EC50 5.64 mg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 0.2 mg/l	Crustaceans	48 hours
	Acute LC50 0.14 mg/l Fresh water	Daphnia - <i>Daphnia galeata</i> -	48 hours
		Neonate	
	Acute LC50 0.4 to 2.2 mg/l	Fish	96 hours
	Chronic EC10 10 µg/l Fresh water	Algae - <i>Raphidocelis</i>	72 hours
		subcapitata - Exponential	
		growth phase	
	Chronic EC10 58 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Juvenile (Fledgling, Hatchling,	
		Weanling)	

#### B. Persistence and degradability

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

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Isopropyl alcohol	0.05	-	Low
Propylene	<1	-	Low
glycolmonomethyl ether			
Ethyl silicate	3.18	-	Low
Ethanol	-0.35	-	Low

#### D. Mobility in soil

Soil/Water partition coefficient

: Not available.

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

# Section 13. Disposal considerations

#### A. Disposal methods

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

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### Section 13. Disposal considerations

#### **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.

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 : None of the components are listed.

(Harmful substances requiring permission)

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### Section 15. Regulatory information

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:

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

**Annex 19 (Exposure** standards established

for harmful factors)

**ISHA Enforcement Regs** Annex 11-5 (Harmful

factors subject to Work

**Environment Measurement)** 

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

**Annex 22 (Harmful Factors Subject to** Special Health Check-

up)

Standard of Industrial

Safety and Health **Annex 12 (Hazardous** substances subject to

control)

: The following components are listed: isopropyl alcohol, silicates

: 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

: None of the components are listed.

: None of the components are listed.

Article 18 Prohibited (K-

Reach Article 27)

**Article 19 Subject to** 

authorization (K-Reach

Article 25)

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** : None of the components are listed.

**Precaution Chemicals**)

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

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

Threshold: 200 L Danger category: II

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

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**Product name SIGMAWELD 190/199 BINDER** 

### 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 (Aguatic toxicity Information

Retrieval) ECOTOX Database System.

B. First issue date : 1/13/2021C. Date of issue/Date of : 4/28/2025

revision

D. Version : 3.01
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.

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