SAFETY DATA SHEET



Date of issue/Date of revision 4 October 2023 Version 10

Section 1. Identification		
Product name	: SIGMAWELD 199 US BINDER 3.17G	
Product code	: 00198403	
Other means of identification	: Not available.	
Product type	: Liquid.	
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	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
Technical Phone Number	: 888-977-4762	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 Fercentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity:
GHS label elements	32.4%
Hazard pictograms	
Signal word	: Danger
	United States Page: 1/14

Product name SIGMAWELD 199 US BINDER 3.17G

Section 2. Hazards identification

Hazard statements	: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer.
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	;	SIGMAWELD 199 US BINDER 3.17G

Ingredient name	%	CAS number
Sílicic acid, ethyl ester	≥20 - ≤50	11099-06-2
	≥20 - ≤50	107-98-2
Isopropyl alcohol	≥20 - ≤50	67-63-0
	≥5.0 - ≤10	78-10-4
sulphuric acid	<1.0	7664-93-9

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

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. 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. 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. Ingestion If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effect	<u>ots</u>
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate med	dical attention and special treatment needed, if necessary
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.

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Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures **Extinguishing media** Suitable extinguishing : Use dry chemical, CO₂, water spray (fog) or foam. media **Unsuitable extinguishing** : Do not use water jet. media Specific hazards arising : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur from the chemical and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Hazardous thermal : Decomposition products may include the following materials: carbon oxides decomposition products metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters 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. : Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

	-	
For non-emergency personnel	:	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.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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).
Methods and materials for co	ont	ainment 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.

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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

Precautions for safe handling

Protective measures	: 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.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits None.			
Silicic acid, ethyl ester				
1-methoxy-2-propanol	ACGIH TLV (United States, 1/2022).			
	STEL: 369 mg/m ³ 15 minutes.			
	STEL: 100 ppm 15 minutes.			
	TWA: 184 mg/m ³ 8 hours.			
	TWA: 50 ppm 8 hours.			
sopropyl alcohol	ACGIH TLV (United States, 1/2022).			
	STEL: 400 ppm 15 minutes.			
	TWA: 200 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 980 mg/m ³ 8 hours.			
	TWA: 400 ppm 8 hours.			
tetraethyl silicate	ACGIH TLV (United States, 1/2022).			
,	TWA: 85 mg/m ³ 8 hours.			
	TWA: 10 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 850 mg/m ³ 8 hours.			
	TWA: 100 ppm 8 hours.			
sulphuric acid	ACGIH TLV (United States, 1/2022).			
'	TWA: 0.2 mg/m ³ 8 hours. Form: Thoracic			
	fraction			
	OSHA PEL (United States, 5/2018).			
	TWA: 1 mg/m ³ 8 hours.			
Key to abbreviation	ī			
A = Acceptable Maximum Peak	S = Potential skin absorption			
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization			

/	ranondari oomoronoo or oovorninonarinaadalari rygiomoto.	011	recopilatory concilization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Exposure Limit 	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	 Time Weighted Average

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

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.
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.

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Section 8. Exposure controls/personal protection

Individual protection measures

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.
Eye/face protection	: Chemical splash goggles.
Skin protection	
Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. For prolonged or repeated handling, use the following type of gloves:
Gloves	. For protonged of 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.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

Section 9. Physical and chemical properties

: Liquid.
: Not available.
: Aromatic.
: Not available.
: Not applicable.
: Not available.
: >37.78°C (>100°F)
: Closed cup: 21°C (69.8°F)
: Not available.
: Not available.
: Not available.

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Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.			
Evaporation rate	: Not available.			
Vapor pressure	: Not available.			
Vapor density	: Not available.			
Relative density	: 0.94			
Density(lbs / gal)	: 7.84			
0 - 1 - 1 - 11 ((1	Media	Result		
Solubility(ies)	cold water	Not soluble		
Partition coefficient: n- octanol/water	: Not applicable.			
Viscosity	: Kinematic (40°C (10	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Volatility	: 68% (v/v), 63.059%	68% (v/v), 63.059% (w/w)		
% Solid. (w/w)	: 36.941			

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients.
: The product is stable.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Sílicic acid, ethyl ester	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	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-
Conclusion/Summary	: There are no data available on t	he mixture itself	-	
Irritation/Corrosion				
Conclusion/Summary				
	· · · · · · · · · · · · · · · · · · ·			
Skin	: There are no data available on t		-	
Skin Eyes	: There are no data available on t : There are no data available on t		-	
		he mixture itself	•	
Eyes	: There are no data available on t	he mixture itself	•	
Eyes Respiratory	: There are no data available on t	he mixture itself	•	
Eyes Respiratory Sensitization	: There are no data available on t	he mixture itself he mixture itself		
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u>	There are no data available on tThere are no data available on t	he mixture itself he mixture itself he mixture itself	•	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin	 There are no data available on t There are no data available on t There are no data available on t 	he mixture itself he mixture itself he mixture itself	•	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	 There are no data available on t There are no data available on t There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself	· · ·	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u>	 There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself	· · ·	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary	 There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself he mixture itself	•	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u>	 There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself he mixture itself	•	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary	 There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself he mixture itself	•	
Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory <u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary <u>Classification</u>	 There are no data available on t 	he mixture itself he mixture itself he mixture itself he mixture itself he mixture itself	•	

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

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. <u>Specific target organ toxicity (single exposure)</u>

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
1-methoxy-2-propanol Isopropyl alcohol tetraethyl silicate	Category 3 Category 3 Category 3	- - -	Narcotic effects Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Potential acute health effects	
Eye contact	Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	Defatting to the skin. May cause skin dryness and irritation.
-	Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	<u>ms</u>
	Adverse symptoms may include the following: pain or irritation watering redness
	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	Adverse symptoms may include the following: irritation dryness cracking
Ingestion	No specific data.
Delayed and immediate effects	and also chronic effects from short and long term exposure
Conclusion/Summary	There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than

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Section 11. Toxicological information

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	irritati This t effect	cted from exposure to noise alone. If splashed in the eyes, the liquid may cause on and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. takes into account, where known, delayed and immediate effects and also chronic as of components from short-term and long-term exposure by oral, inhalation and al routes of exposure and eye contact.
<u>Short term exposure</u>		
Potential immediate effects	There	e are no data available on the mixture itself.
Potential delayed effects	There	e are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	There	e are no data available on the mixture itself.
Potential delayed effects	There	e are no data available on the mixture itself.
Potential chronic health effe	<u>ts</u>	
General	Prolo derm	nged or repeated contact can defat the skin and lead to irritation, cracking and/or atitis.
Carcinogenicity	Mayo	cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	No kr	nown significant effects or critical hazards.
Reproductive toxicity	No kr	nown significant effects or critical hazards.
Numerical measures of toxic	Ľ	

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SIGMAWELD 199 US BINDER 3.17G	N/A	N/A	N/A	134.2	N/A
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
sulphuric acid	2140	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
· J I I	Acute LC50 23300 mg/l Acute LC50 >4500 mg/l Fresh water	Daphnia Fish	48 hours 96 hours
		Daphnia - <i>Daphnia magna</i>	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

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

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

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. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

-			
	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards Marine pollutant	No. Not applicable.		No. Not applicable.
substances			

Additional information

DOT

: None identified.

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14. Transport information

IMDG : None identified.

ΙΑΤΑ : None identified.

Special precautions for user : 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

United States

United States inventory (TSCA 8b) : All components are active or exempted.

SARA 302/304

SARA 304 RQ

: 350093 lbs / 158942.2 kg [44668.2 gal / 169087.5 L]

Composition/information on ingredients

		SARA 302 TPQ		SARA 304 RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
sulphuric acid	Yes.	1000	66.3	1000	66.3 ·

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2 **EYE IRRITATION - Category 2A** CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -Category 3 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
Silicic acid, ethyl ester	≥20 - ≤50	EYE IRRITATION - Category 2A
1-methoxy-2-propanol	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
Isopropyl alcohol	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
tetraethyl silicate	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
sulphuric acid	<1.0	SKIN CORROSION - Category 1A
		SERIOUS EYE DAMAGE - Category 1
		CARCINOGENICITY - Category 1A
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Section 15. Regulatory information

HNOC - Corrosive to digestive tract

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: Cancer - www.P65Warnings.ca.gov.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 1 (*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Asso	ociation (U.S.A.)			
Health : 3 Flammat	pility : 3 Instability : 1			
Date of previous issue	: 5/29/2021			
Organization that prepared the SDS	: EHS			
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations			

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.