# **SAFETY DATA SHEET**



Date of issue/Date of revision 15 March 2024 Version 8

Section 1. Identif	Section 1. Identification	
Product name	: SIGMAWELD 199 PASTE GREEN	
Product code	: 000001100010	
Other means of identification	: 00158609; 00160930; 00175788	
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	<ul> <li>FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 47.6% (oral), 54.7% (dermal), 8.4% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
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# Section 2. Hazards identification

Hazard statements	:	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. May cause damage to organs through prolonged or repeated exposure. (hearing organs)
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. Keep container tightly closed. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	:	IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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 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. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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	: Mixture
Product name	: SIGMAWELD
Other means of identification	: 00158609; 001

- SIGMAWELD 199 PASTE GREEN
  - 00158609; 00160930; 00175788

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# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
xylene	≥10 - <20	1330-20-7
zinc oxide	≥10 - ≤16	1314-13-2
1-methoxy-2-propanol	≥5.0 - ≤10	107-98-2
crystalline silica, respirable powder (>10 microns)	≥5.0 - ≤10	14808-60-7
ethylbenzene	≥1.0 - ≤4.5	100-41-4
Isopropyl alcohol	≥1.0 - ≤3.0	67-63-0
Zeolites	≥1.0 - ≤5.0	1318-02-1
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
Fatty acids, C18-unsatd., trimers, compds. with oleylamine	<1.0	147900-93-4
Fatty acids, tall-oil, compds. with oleylamine	<1.0	85711-55-3

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>
Most important sympt	coms/effects, acute and delayed

Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

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# Section 4. First aid measures

Skin contact	: Adverse symptoms may include the following:
	irritation
	redness dryness
	cracking
Ingestion	: No specific data.
ingestion	
Indication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large guantities have been ingested or inhaled.</li> </ul>
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

ion 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

Extinguishing media	t lles dry shaming
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur 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	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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# 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.
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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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.

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# Section 7. Handling and storage

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
xylene	OSHA PEL (United States, 5/2018).
	[Xylenes (o-, m-, p-isomers)]
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 1/2023). [p-
	xylene and mixtures containing p-xylene]
	Ototoxicant.
	TWA: 20 ppm 8 hours.
zinc oxide	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 1/2023).
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
	Respirable fraction
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
1-methoxy-2-propanol	ACGIH TLV (United States, 1/2023).
5 1 1	STEL: 369 mg/m <sup>3</sup> 15 minutes.
	STEL: 100 ppm 15 minutes.
	TWA: 184 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
crystalline silica, respirable powder (>10 microns)	ACGIH TLV (United States, 1/2023). [Silica,
,	crystalline]
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
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# Section 8. Exposure controls/personal protection

Respirable       OSHA PEL 23 (United States, 6/2016).         TWA: 10 mg/m² / (%SiO2+2) 8 hours. Form:       Respirable         TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:       Respirable         TWA: 50 µg/m² 8 hours. Form:       Respirable         OSHA PEL (United States, 5/2018). [Silica, crystalline]       TWA: 50 µg/m² 8 hours. Form: Respirable         dust       ACGIH TLV (United States, 1/2023).         Ottoxicant.       TWA: 435 mg/m² 8 hours.         TWA: 435 mg/m² 8 hours.       States, 5/2018).         Isopropyl alcohol       XGIH TLV (United States, 1/2023).         Isopropyl alcohol       STEL: 400 ppm 15 minutes.         TWA: 200 ppm 8 hours.       TWA: 200 ppm 8 hours.         Zeolites       ACGIH TLV (United States, 1/2023).         Zeolites       ACGIH TLV (United States, 1/2023).         Zeolites       ACGIH TLV (United States, 1/2023).         Crystalline silica, respirable powder (<10 microns)       TWA: 400 ppm 8 hours.         Crystalline silica, respirable powder (<10 microns)       ACGIH TLV (United States, 1/2023).         Crystalline silica, respirable powder (<10 microns)       ACGIH TLV (United States, 1/2023).         Crystalline silica, respirable powder (<10 microns)       ACGIH TLV (United States, 5/2018).         TWA: 100 µm² / (%SiO2+2) 8 hours. Form:       Respirable         OSHA PEL L2 (United	T	Description
TWA: 10 mg/m² / (%SiO2+2) 8 hours. Form: Respirable         WA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable         OSHA PEL (United States, 5/2018). [Silica, crystalline]         TWA: 50 µg/m² 8 hours. Form: Respirable dust         ethylbenzene         ACGIH TLV (United States, 1/2023).         Ototoxicant.         TWA: 20 ppm 8 hours.         OSHA PEL (United States, 1/2023).         Ototoxicant.         TWA: 20 ppm 8 hours.         OSHA PEL (United States, 1/2023).         Zeolites         Zeolites         Crystalline silica, respirable powder (<10 microns)		
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ZeolitesACGIH TLV (United States, 1/2023). [Aluminum, metal and insoluble compounds] TWA: 1 mg/m³ 8 hours. Form: Respirable fractioncrystalline silica, respirable powder (<10 microns)		
[Aluminum, metal and insoluble compounds]crystalline silica, respirable powder (<10 microns)	Zeolites	
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<ul> <li>TWA: 1 mg/m³ 8 hours. Form: Respirable fraction</li> <li>ACGIH TLV (United States, 1/2023). [Silica, crystalline]</li> <li>TWA: 0.025 mg/m³ 8 hours. Form: Respirable</li> <li>OSHA PEL Z3 (United States, 6/2016).</li> <li>TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable</li> <li>OSHA PEL Z3 (United States, 6/2016).</li> <li>TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable</li> <li>TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable</li> <li>OSHA PEL (United States, 5/2018). [Silica, crystalline]</li> <li>TWA: 50 µg/m³ 8 hours. Form: Respirable</li> <li>OSHA PEL (United States, 5/2018). [Silica, crystalline]</li> <li>TWA: 50 µg/m³ 8 hours. Form: Respirable</li> <li>OSHA PEL (United States, 5/2018). [Silica, crystalline]</li> <li>TWA: 50 µg/m³ 8 hours. Form: Respirable</li> <li>Mone.</li> </ul>		
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Respirable       TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable         OSHA PEL (United States, 5/2018). [Silica, crystalline]         TWA: 50 µg/m³ 8 hours. Form: Respirable         dust         Fatty acids, C18-unsatd., trimers, compds. with oleylamine         Fatty acids, tall-oil, compds. with oleylamine         None.		
TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: RespirableOSHA PEL (United States, 5/2018). [Silica, crystalline] TWA: 50 μg/m³ 8 hours. Form: Respirable dustFatty acids, C18-unsatd., trimers, compds. with oleylamineFatty acids, tall-oil, compds. with oleylamineNone.		<b>3</b> ( )
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TWA: 50 µg/m³ 8 hours. Form: Respirable dust         Fatty acids, C18-unsatd., trimers, compds. with oleylamine       None.         Fatty acids, tall-oil, compds. with oleylamine       None.		OSHA PEL (United States, 5/2018). [Silica,
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Fatty acids, C18-unsatd., trimers, compds. with oleylamineNone.Fatty acids, tall-oil, compds. with oleylamineNone.		TWA: 50 μg/m³ 8 hours. Form: Respirable
Fatty acids, tall-oil, compds. with oleylamine   None.		
Key to abbreviations	Fatty acids, tall-oil, compds. with oleylamine	None.
	Key to abbreviations	
A = Acceptable Maximum Peak S = Potential skin absorption	A = Acceptable Maximum Peak	•
ACGIH = American Conference of Governmental Industrial Hygienists. C = Ceiling Limit SS = Skin sensitization		

STEL

TD

TLV

TWA

- F = Fume
- IPEL = Internal Permissible Exposure Limit
- OSHA = Occupational Safety and Health Administration.
  - R = Respirable

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

### Consult local authorities for acceptable exposure limits.

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= Short term Exposure limit values

= Threshold Limit Value

= Time Weighted Average

= Total dust

Product name SIGMAWELD 199 PASTE GREEN

# 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.
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.
Individual protection measur	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
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.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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.

Product name SIGMAWELD 199 PASTE GREEN

# Section 9. Physical and chemical properties

### **Appearance**

Physical state	:	Liquid.	
Color	1	Green.	
Odor	1	Aromatic.	
Odor threshold	:	Not available.	
рН	1	Not applicable.	
Melting point	1	Not available.	
Boiling point	1	>37.78°C (>100°F)	
Flash point	1	Closed cup: 24°C (75.2°F)	
Auto-ignition temperature	1	287°C (548.6°F)	
Decomposition temperature	:	Not available.	
Flammability	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Evaporation rate	:	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Not available.	
Relative density	:	1.93	
Density(lbs / gal)	:	16.11	
		Media	Result
Solubility(ies)	÷	cold water	Not soluble
Partition coefficient: n- octanol/water	1	Not applicable.	
Viscosity	:	Kinematic (40°C (104°F)): >	>21 mm²/s (>21 cSt)
Volatility	:	<mark>ø</mark> 3% (v/v), 31.495% (w/w)	
% Solid. (w/w)	:	<b>6</b> 8.505	

# Section 10. Stability and reactivity

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

Product name SIGMAWELD 199 PASTE GREEN

# Section 10. Stability and reactivity

Hazardous decomposition : Evolves hydrogen of products products products

: Evolves hydrogen on contact with water. 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

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
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	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
Fatty acids, C18-unsatd., trimers, compds. with oleylamine	LD50 Oral	Rat	>1570 mg/kg	-

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

### Irritation/Corrosion

					i
Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			·		
Skin	: There are no data availa	ble on the mixt	ure itself.		
Eyes	: There are no data availa	ble on the mixt	ure itself.		
Respiratory	: There are no data availa	ble on the mixt	ure itself.		
Sensitization					
Conclusion/Summary					
Skin	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.				
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data availa	ble on the mixt	ure itself.		
Carcinogenicity					
Conclusion/Summary	: There are no data availa	ble on the mixt	ure itself.		
<u>Classification</u>					

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### Product name SIGMAWELD 199 PASTE GREEN

# Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
<b>x</b> ylene	-	3	-
crystalline silica, respirable powder (>10 microns)	+	1	Known to be a human carcinogen.
ethylbenzene	-	2B	-
Isopropyl alcohol	-	3	-
Zeolites	-	3	-
crystalline silica, respirable powder (<10 microns)	+	1	Known to be a human carcinogen.

**Carcinogen Classification code:** 

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**

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

### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation
	Category 3 Category 3		Narcotic effects Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene crystalline silica, respirable powder (<10 microns) Fatty acids, C18-unsatd., trimers, compds. with oleylamine	Category 2 Category 1 Category 2	- inhalation oral	hearing organs - gastrointestinal tract, immune system, liver
Fatty acids, tall-oil, compds. with oleylamine	Category 2	oral	gastrointestinal tract

Target organs

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.

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

### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

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Product name SIGMAWELD 199 PASTE GREEN

# Section 11. Toxicological information

Potential acute health effe	
Eye contact	: Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	
Eye contact	: Adverse symptoms may include the following:
Lyc contact	pain or irritation
	watering
	redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	dryness cracking
Ingestion	: No specific data.
-	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product contains crystalline silica
2 on oracion, our many	which can cause lung cancer or silicosis. The risk of cancer depends on the duration
	and level of exposure to dust from sanding surfaces or mist from spray applications.
	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 expected from exposure to
	noise alone. If splashed in the eyes, the liquid may cause irritation and reversible
	damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account,
	where known, delayed and immediate effects and also chronic effects of components
	from short-term and long-term exposure by oral, inhalation and dermal routes of
	exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health ef	<u>iects</u>
General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or
	repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
	Once sensitized, a severe allergic reaction may occur when subsequently exposed to
	very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
	-
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-	

Product name SIGMAWELD 199 PASTE GREEN

# Section 11. Toxicological information

Reproductive toxicity

: No known significant effects or critical hazards.

### Numerical measures of toxicity

### 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)
GMAWELD 199 PASTE GREEN xylene zinc oxide 1-methoxy-2-propanol ethylbenzene Isopropyl alcohol Fatty acids, C18-unsatd., trimers, compds. with oleylamine	10885.3 4300 N/A 5200 3500 5045 500	3172.0 1700 2500 13000 17800 12800 N/A	N/A N/A N/A N/A N/A N/A N/A	58.3 11 N/A N/A 17.8 72.6 N/A	7.5 1.5 N/A N/A 1.5 N/A N/A

# Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
zínc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
-	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Zeolites	Acute LC50 >680 mg/l	Fish	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegr	adability
₩ylene ethylbenzene	-		-		Readily Readily	

**Bioaccumulative potential** 

### Product name SIGMAWELD 199 PASTE GREEN

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
Isopropyl alcohol	0.05	-	Low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

14 Transport information

# 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

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	111	III	III	
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	Image: Image: Ref (Image:	Not applicable.	
Product RQ (lbs)	<b>5</b> 88.18	Not applicable.	Not applicable.	
	l		United States Page: 14/17	

Product name SIGMAWELD 199 PASTE GREEN

## 14. Transport information

RQ substances	(xylene, Zinc powder - zinc	Not applicable.	Not applicable.
	dust (stabilized))		

### **Additional information**

DOT	: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
ΙΑΤΑ	<ul> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul>

**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.

United States - TSCA 12(b) - Chemical export notification: Zinc powder - zinc dust (stabilized)

Annual notification

### SARA 302/304

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

### Composition/information on ingredients

Name	%	Classification
xýlene 1-methoxy-2-propanol	≥10 - <20 ≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3
1	I	United States Page: 15/17

Product name SIGMAWELD 199 PASTE GREEN

# Section 15. Regulatory information

		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
crystalline silica, respirable	≥5.0 - ≤10	CARCINOGENICITY - Category 1A
powder (>10 microns)		
ethylbenzene	≥1.0 - ≤4.5	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
le surrend als sheet	>10 <00	HNOC - Defatting irritant
Isopropyl alcohol	≥1.0 - ≤3.0	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)	\$1.0	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
Fatty acids, C18-unsatd., trimers,	<1.0	COMBUSTIBLE DUSTS
compds. with oleylamine		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		SKIN SENSITIZATION - Category 1
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Fatty acids, tall-oil, compds. with	<1.0	SERIOUS EYE DAMAGE - Category 1
oleylamine		SKIN SENSITIZATION - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2

<u>SARA 313</u>			
	Chemical name	<u>CAS number</u>	<b>Concentration</b>
Supplier notification	: Znc powder - zinc dust (stabilized)	7440-66-6	10 - 30
	xylene	1330-20-7	10 - 30
	zinc oxide	1314-13-2	7 - 13
	ethylbenzene	100-41-4	1 - 5
	lead monoxide	1317-36-8	0.000475

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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.

Product name SIGMAWELD 199 PASTE GREEN

# Section 16. Other information

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

Health : 2 \* 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 Association (U.S.A.)

Health : 2 Flamma Date of previous issue	ability : 3 Instability : 1 : 11/14/2023
Organization that prepared the SDS	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>

### 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.