SAFETY DATA SHEET



The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision20 September 2024Version 9.04

Section 1. Identification		
Product name	: SIGMAWELD 165 BINDER	
Product code	: 00243732	
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.	
Supplier	 PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121 	
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (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. Hazard identification

Classification of the	: FLAMMABLE LIQUIDS - Category 2
substance or mixture	EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	Health Hazards Not Otherwise Classified - Category 1
GHS label elements	
Hazard pictograms	

Product name SIGMAWELD 165 BINDER

Section 2. Hazard identification

Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. Prolonged or repeated contact may dry skin and cause irritation.Precautionary statementsPrevention: 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 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.Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.Supplemental label: Repeated exposure to high vapor concentrations may cause irritation of the	Signal word	: Danger
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 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.Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.Supplemental label elements: 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. Percentage of the mixture consisting of ingredient(s) of unknown acute dermal	Hazard statements	Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer.
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	Supplemental label elements	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.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: SIGMAWELD 165 BINDER
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	Synonyms	% (w/w)	CAS number
ethanol	ethyl alcohol; ALCOHOL; Ethyl alcohol (Ethanol); EtOH; Grain alcohol; Cologne spirit; undenatured ethyl alcohol, of an alcoholic strength by volume of 80 % or more and containing up to 20 % activated carbon; mixture, consisting of ethyl alcohol, isopropanol, n-propanol and small quantities of other organic products; Denatured Alcohol; METHYLCARBINOL; 1-HYDROXYETHANE		64-17-5
Isopropyl alcohol	isopropanol; 2-Propanol	10 - 30*	67-63-0
Silicic acid, ethyl ester	Ethyl silicate; Poly(tetraethoxysilane);	10 - 30*	11099-06-2
		С	anada Page: 2/15

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Section 3. Composition/information on ingredients

	ETHYL POLYSILICATE; Tetraethyl orthosilicate polymer; Silicic acid, tetraethylester polymer; Silicic acid , tetraethyl ester, homopolymer; Polysilicic acid, ethyl ester; Silicic acid ethyl ester; POLYSILICATE, ETHYL; SILICATE; SILICIC ACID-ETHYL ESTER		
tetraethyl silicate	ethyl silicate; tetraethyl orthosilicate; Silicic acid (H4SiO4), tetraethyl ester; Silane, tetraethoxy-; Silicic acid, tetraethyl ester; Tetraethoxysilane; Ethyl silicate condensed; Ethyl orthosilicate; SILICIC ACID, (H4SiO4), TETRAETHYL ESTER; Silicic acid (H4SiO4) tetraethyl ester; Tetraethoxy silicone	3 - 7*	78-10-4
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy- 2-hydroxypropane; 2-Methoxy- 1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan- 2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy- 1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	3 - 7*	107-98-2
sulphuric acid	Sulfuric acid; Sulfuric acid aqueous; Oil of vitriol; Hydrogen sulfate; Battery acid; oleum; dipping acid; matting acid; nordhausen acid; oil of vitriol; spent sulfuric acid; spirit of sulfur; vitriol; vitriol brown oil; E 513; dihydrogen sulphate; battery acid; electrolyte acid; dihydroxidodioxidosulfur; brimstone acid; contact acid; sulfur acid; DIHYDROGEN SULFATE; dihydrogen tetraoxosulfate; Strong Inorganic Acid Mists Containing Sulfuric Acid; OIL OF VITREOL; Sulfuric acid 100%	0.1 - 1*	7664-93-9

*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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.

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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.

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Potential acute health effe	<u>, doute and douglou</u>	
Eye contact	Causes serious eye irritation.	
Inhalation	Can cause central nervous system (CNS) depression. May cause drows	siness or
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>i</u>	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	Adverse symptoms may include the following: nausea or vomiting neadache drowsiness/fatigue dizziness/vertigo unconsciousness	
Skin contact	Adverse symptoms may include the following: rritation dryness cracking	
Ingestion	No specific data.	
Indication of immediate me	attention and special treatment needed, if necessary	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately quantities have been ingested or inhaled.	if large
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable tr s suspected that fumes are still present, the rescuer should wear an app mask or self-contained breathing apparatus. It may be dangerous to the providing aid to give mouth-to-mouth resuscitation. Wash contaminated thoroughly with water before removing it, or wear gloves.	propriate e person

See toxicological information (Section 11)

Product name SIGMAWELD 165 BINDER

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

		Canada Page: 5/15
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
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.
Methods and materials for co	ont	ainment and cleaning up
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).
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".
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.

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Section 6. Accidental release measures

emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L	
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	:	Wash hands thoroughly after handling.
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

<u>Control parameters</u> <u>Occupational exposure limits</u>

Product name SIGMAWELD 165 BINDER

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
ethanol	CA Alberta Provincial (Canada, 3/2023).
	OEL: 1000 ppm 8 hours.
	OEL: 1880 mg/m ³ 8 hours.
	CA British Columbia Provincial (Canada,
	8/2023).
	STEL: 1000 ppm 15 minutes.
	CA Ontario Provincial (Canada, 6/2019).
	STEL: 1000 ppm 15 minutes. CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 1250 ppm 15 minutes.
	TWA: 1000 ppm 8 hours.
	CA Quebec Provincial (Canada, 7/2023).
	STEV: 1000 ppm 15 minutes.
Isopropyl alcohol	CA Alberta Provincial (Canada, 3/2023).
	OEL: 984 mg/m ³ 15 minutes.
	OEL: 200 ppm 8 hours.
	OEL: 400 ppm 15 minutes. OEL: 492 mg/m³ 8 hours.
	CA British Columbia Provincial (Canada,
	8/2023).
	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 200 ppm 8 hours.
	STEL: 400 ppm 15 minutes. CA Quebec Provincial (Canada, 7/2023).
	TWAEV: 200 ppm 8 hours.
	STEV: 400 ppm 15 minutes.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
Silicic acid, ethyl ester	None.
tetraethyl silicate	CA Alberta Provincial (Canada, 3/2023).
	OEL: 85 mg/m ³ 8 hours.
	OEL: 10 ppm 8 hours. CA British Columbia Provincial (Canada,
	8/2023).
	TWA: 10 ppm 8 hours.
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 10 ppm 8 hours.
	CA Quebec Provincial (Canada, 7/2023).
	TWAEV: 85 mg/m ³ 8 hours.
	TWAEV: 10 ppm 8 hours. CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 15 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
1-methoxy-2-propanol	CA Alberta Provincial (Canada, 3/2023).
	OEL: 553 mg/m ³ 15 minutes.
	OEL: 150 ppm 15 minutes.
	OEL: 369 mg/m ³ 8 hours.
	OLL. 000 mg/m 0 hours.

Product name SIGMAWELD 165 BINDER

Section 8. Exposure controls/personal protection

	OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). STEV: 553 mg/m³ 15 minutes. STEV: 553 mg/m³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 369 mg/m³ 8 hours. TWAEV: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
sulphuric acid	 CA Ontario Provincial (Canada, 6/2019). TWA: 0.2 mg/m³ 8 hours. Form: Thoracic particulate matter. CA Alberta Provincial (Canada, 3/2023). OEL: 3 mg/m³ 15 minutes. OEL: 1 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.6 mg/m³ 15 minutes. TWA: 0.2 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 8/2023). TWA: 0.2 mg/m³ 8 hours. Form: thoracic CA Quebec Provincial (Canada, 7/2023). TWAEV: 0.2 mg/m³ 8 hours. Form: thoracic dust

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.

Individual protection measures

Product name SIGMAWELD 165 BINDER

Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Not available.
Odor	: Aromatic.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 14°C (57.2°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Flammability	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.

Product name SIGMAWELD 165 BINDER

Section 9. Physical and chemical properties

Vapor pressure	: Not available.		•
Vapor density	: Not available.		
Relative density	: 0.87		
Density(lbs / gal)	: 7.26		
	Media	Result	
Solubility(ies)	cold water	Not soluble	
Partition coefficient: n- octanol/water	: Not applicable.		
Viscosity	: Kinematic (40°C (1	104°F)): >21 mm²/s (>21 cSt)	
Volatility	: 82% (v/v), 78.271%	% (w/w)	
% Solid. (w/w)	: 21.729		

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.
Hazardous decomposition products	: 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
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
3 1 1	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-

Product name SIGMAWELD 165 BINDER

Section 11. Toxicological information

	U					
sulphuric acid	LD50 (Oral		Rat	2140 mg/kg	-
Conclusion/Summary	: The	re are no	data availa	ble on the mixtu	re itself.	
Irritation/Corrosion						
Conclusion/Summary						
Skin	: The	re are no	data availa	ble on the mixtu	re itself.	
Eyes	: The	re are no	data availa	ble on the mixtu	re itself.	
Respiratory	: The	re are no	data availa	ble on the mixtu	re itself.	
Sensitization						
Skin	: The	re are no	data availa	ble on the mixtu	re itself.	
Respiratory	: The	re are no	data availa	ble on the mixtu	re itself.	
Mutagenicity						
Conclusion/Summary	: The	re are no	data availa	ble on the mixtu	re itself.	
Carcinogenicity						
Conclusion/Summary	: The	re are no	data availa	ble on the mixtu	re itself.	
Classification						
Product/ingredient name		OSHA	IARC	NTP		
Isopropyl alcohol		-	3	-		

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: -

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Reproductive toxicity

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

Teratogenicity

sulphuric acid

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

Specific target organ toxicity (single exposure)

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

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, the reproductive system, liver, heart, spleen, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Known to be a human carcinogen.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Product name SIGMAWELD 165 BINDER

Section 11. Toxicological information

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.
Incontinu	Con source control nonviews system (CNC) depression

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

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.

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 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.	
Short term exposure 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 effects	1	There are no data available on the mixture itself.	
Potential delayed effects	1	There are no data available on the mixture itself.	
Potential chronic health effects			

Product name SIGMAWELD 165 BINDER

Section 11. Toxicological information

General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

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/l)
SIGMAWELD 165 BINDER	N/A	N/A	N/A	179.0	N/A
ethanol	7000	17100	N/A	124.7	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
sulphuric acid	2140	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

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

Persistence and degradability

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

Bioaccumulative potential

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

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Product name SIGMAWELD 165 BINDER

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

Section 14. Transport information

	TDG	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.

Additional information

TDG: None identified.IMDG: None identified.

IATA : 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

Proof of classification
statement: Product classified as per the following sections of the Transportation of Dangerous
Goods Regulations: 2.18-2.19 (Class 3).

Product name SIGMAWELD 165 BINDER

Section 15. Regulatory information

National Inventory List

Canada inventory (DSL)

: All components are listed or exempted.

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 Ass	ociation (U.S.A.)
Health : 3 Flamma	bility : 3 Instability : 1
Date of issue/Date of revision	20 September 2024
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 = Internediate Bulk Container IMDG = 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.