SAFETY DATA SHEET



Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 1 February 2024

Version 10

Date of issue 1 February 2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: SIGMAZINC 158 BINDER
Product code	: 00142716
Other means of identification	: Not applicable.
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

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.6% (oral), 46.1% (dermal), 28.6% (inhalation)

GHS label elements

Product code 00142716 Product name SIGMAZINC 158 BINDER

SECTION 2: Hazards identification

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Hazard	pictograms	



Signal word	:	Danger
Hazard statements	:	 H225 - Highly flammable liquid and vapor. H303 + H313 - May be harmful if swallowed or in contact with skin. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H350 - May cause cancer. H360 - May damage fertility or the unborn child. H370 - Causes damage to organs. H372 - Causes damage to organs through prolonged or repeated exposure. (hearing organs)
Precautionary statements		
Prevention	:	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.
Response	:	 P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Sanding and grinding dusts may be harmful if inhaled. Cannot be made nonpoisonous. May be fatal or cause blindness if swallowed. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. 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. Emits toxic fumes when heated.
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SECTION 2: Hazards identification

See toxicological information (Section 11)

SECTION 3: Composition/information on ingredients

Substance/mixture	
Product name	

Mixture

: SIGMAZINC 158 BINDER

Other means of identification

: Not applicable.

Ingredient name	

Ingredient name	%	CAS number
prystalline silica, respirable powder (>10 microns)	≥20 - ≤50	14808-60-7
1-methoxy-2-propanol	≥20 - ≤50	107-98-2
xylene	≥10 - ≤18	1330-20-7
Silicic acid, ethyl ester	≥10 - ≤20	11099-06-2
tetraethyl silicate	≥1.0 - ≤5.0	78-10-4
ethylbenzene	≥1.0 - ≤3.2	100-41-4
crystalline silica, respirable powder (<10 microns)	≥1.0 - ≤5.0	14808-60-7
methanol	≤1.5	67-56-1
trimethyl borate	<1.0	121-43-7
sulphuric acid	<1.0	7664-93-9

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

Description of necessary first aid measuresEye 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 effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or
	dizziness. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes damage to organs following a single
	exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: May be harmful if swallowed. Causes damage to organs following a single
	exposure if swallowed. Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

See toxicological information (Section 11)

Indication of immediate medical attention and special treatment needed, if necessary

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SECTION 4: First aid measures

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.

SECTION 5: Firefighting 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			
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 containment and cleaning up

SECTION 6: Accidental release measures

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). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.
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
rystalline silica, respirable powder (>10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
1-methoxy-2-propanol	NOM-010-STPS-2014 (Mexico, 4/2016).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
xylene	NOM-010-STPS-2014 (Mexico, 4/2016).
	[Xylenes (mixed)]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
Silicic acid, ethyl ester	None.
tetraethyl silicate	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 10 ppm 8 hours.
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 20 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
methanol	NOM-010-STPS-2014 (Mexico, 4/2016).
	Absorbed through skin.
	STEL: 250 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
trimethyl borate	ACGIH TLV (United States).
	STEL: 6 mg/m ³
	TWA: 2 mg/m ³
sulphuric acid	NOM-010-STPS-2014 (Mexico, 4/2016).
	TWA: 0.2 mg/m ³ 8 hours. Form: Thoracic
	fraction

C = Ceiling Limit IPEL = Internal Permissible Exposure Limit STEL = Short term exposure limit

TLV = Threshold Limit Value TWA = Time Weighted Average

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

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: polyvinyl alcohol (PVA), Viton®, butyl rubber May be used: 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

: Liquid.
: Colorless.
: Characteristic.
: Not available.
: Not applicable.
: Not applicable.
: Not available.
: >37.78°C (>100°F)
: Closed cup: 16.5°C (61.7°F)
: 270°C (518°F)
: Not available.
: Not available.
: Not available.

SECTION 9: Physical and chemical properties

Evaporation rate	:	Not available.		
Vapor pressure	:	Not available.		
Vapor density	:	Not available.		
Relative density	:	1.18		
Density(lbs / gal)	:	9.85		
		Media	Result	
Solubility(ies)	:	cold water	Not soluble	
Solubility in water	:	Not available.		
Partition coefficient: n- octanol/water	:	Not applicable.		
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	
Volatility	:	₱ 5 6% (v/v), 51.4889	% (w/w)	
% Solid. (w/w)	:	4 8.512		

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

	tox	
Acute	UN	

Product/ingredient name	Result	Species	Dose	Exposure		
-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours		
	LD50 Dermal	Rabbit	13 g/kg	-		
	LD50 Oral	Rat	5.2 g/kg	-		
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-		
5	LD50 Oral	Rat	4.3 g/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	-		
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours		
5	LD50 Dermal	Rabbit	17.8 g/kg	-		
	LD50 Oral	Rat	3.5 g/kg	-		
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roduct code 00142716				Date of	issue	1 Febru	ary 2024	Version 10
roduct name SIGMAZINC	158 BIN	DER						
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methanol	•			Rat		64000	nnm	4 hours
methanol	LC50 Inhalation Vapor LD50 Dermal			Rabbit			mg/kg	-
	LD50 Ora	d		Rat		5600 n		-
trimethyl borate	LD50 Der			Rabbit		1.98 g/		-
	LD50 Ora			Rat		6.14 g/		-
sulphuric acid	LD50 Ora			Rat		2140 n	ng/kg	-
Conclusion/Summary	: Inere a	are no dat	a available o	n the mixi	ure itse	IT.		
Product/ingredient name	Result		Sn	ecies	Scor		Exposure	Observatio
		oderate irr		bbit	3001		24 hours 50	
kylene	SKIII - IVIC			DDIL	-		za nours sc mg	- 0
Conclusion/Summary								
Skin	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Eyes	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Respiratory	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Sensitization								
Conclusion/Summary								
Skin	• There	are no dat	a available o	n the mivt	uro iteo	If		
-								
Respiratory	: There a	are no dat	a available o		ure itse	11.		
Mutagenicity								
Conclusion/Summary	: There a	are no dat	a available o	n the mixt	ure itse	lt.		
Carcinogenicity								
Conclusion/Summary	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Classification								
Product/ingredient name	OSHA	IARC	NTP					
rystalline silica, respirable	+	1	Known to	be a hum	an carci	inogen.		
powder (>10 microns)								
xylene	-	3 2B	-					
ethylbenzene crystalline silica, respirable	+	1	- Known to	he a hum	an carci	inogen		
powder (<10 microns)						inegen.		
sulphuric acid	-	1	Known to	be a hum	an carci	inogen.		
Carcinogen Classificatio	n code:							
IARC: 1, 2A, 2B, 3	8, 4							
NTP: Known to b	be a human c	arcinogen;	Reasonably an	ticipated to	be a hun	nan carcii	nogen	
OSHA: + Not listed/not reg	ulated: -							
Reproductive toxicity								
Conclusion/Summary	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Teratogenicity								
Conclusion/Summary	: There a	are no dat	a available o	n the mixt	ure itse	lf.		
Specific target organ toxicit	<u>y (single e</u>	xposure)	1					

SECTION 11: Toxicological information

Name	Category	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
tetraethyl silicate	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-
trimethyl borate	Category 1	-	optic nerve

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
	Category 2	-	hearing organs
	Category 1	inhalation	-

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, gastrointestinal tract, 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

Potential acute health effects

Eye contact	۰.	Causes serious eye irritation.
Inhalation		Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	1	May be harmful in contact with skin. Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	1	May be harmful if swallowed. Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	m	<u>s</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Contains . methanol - Cannot be made nonpoisonous. May be fatal or cause blindness if swallowed. 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. 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 effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	
General	: Causes damage to organs through prolonged or repeated exposure. 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	: May damage fertility or the unborn child.
Numerical measures of tox	icity
Aguto toxicity actimates	

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMAZINC 158 BINDER	4579.4	3974.3	N/A	29.3	5.4
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
methanol	100	300	64000	3	N/A
trimethyl borate	6140	1980	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
✓-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	-
methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
<mark>x</mark> ylene ethylbenzene	-		-		Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Methoxy-2-propanol xylene tetraethyl silicate ethylbenzene methanol trimethyl borate	<1 3.12 3.18 3.6 -0.77 -1.9	- 7.4 to 18.5 - 79.43 -	Low Low Low Low Low Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Product code 00142716

Product name SIGMAZINC 158 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 nonrecyclable 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

	Mexico Classification	IMDG	ΙΑΤΑ
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	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

Additional information

Mexico	: None identified.
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.

Product code 00142716

Product name SIGMAZINC 158 BINDER

SECTION 14: Transport information

Transport in bulk according : Not applicable. to IMO instruments

SECTION 15: Regulatory information

<u>Mexico</u>

Classification

Flammability : 3 Health : 3 Reactivity : 0

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

SECTION 16: Other information

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

Health : 3 * Flammability : 3 Physical hazards : 0 (*) - 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. 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.

Date of previous issue Organization that prepared the SDS	: 5/30/2022 : 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.

Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

Disclaimer

SECTION 16: Other information

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.