SAFETY DATA SHEET



Date of issue	
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Version 1

Section 1. Product and company identification

2 July 2024

Product name	: SIGMAZINC 158 BINDER
Product code	: 000001013217
Other means of identification	: 00142716; 00149957; 00189697; 00190684; 00192685; 00237392; 00328667; 00440496
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	 PPG INDUSTRIES CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

Section 2. Hazards identification

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Section 2. Hazards	s identification
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, cardiovascular system, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea. Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 28.6% Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 47.8% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the
	aquatic environment: 50.7%
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Highly flammable liquid and vapor. May be harmful if swallowed or in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.
Precautionary statements	
Prevention	: Obtain special instructions before use. 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. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response	: IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of 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 in a well-ventilated place. Keep container tightly closed. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

Section 2. Hazards identification

Classification according to : 3 NCh382:

Label according to NCh2190:



Section 3. Composition/information on ingredients

Substance/mixture	÷	Mixture
Other means of identification	1	00142716; 00149957; 00189697; 00190684; 00192685; 00237392; 00328667; 00440496

CAS number/other identifiers

CAS number : Not applicable.

Ingredient name	%	CAS number
crystalline silica, respirable powder (>10 microns)	20 - <30	14808-60-7
1-methoxy-2-propanol	20 - <30	107-98-2
xylene	15 - <20	1330-20-7
Silicic acid, ethyl ester	15 - <20	11099-06-2
tetraethyl silicate	3 - <5	78-10-4
ethylbenzene	3 - <5	100-41-4
crystalline silica, respirable powder (<10 microns)	2 - <3	14808-60-7
Talc , not containing asbestiform fibres	1 - <2	14807-96-6
methanol	1 - <2	67-56-1
trimethyl borate	0.5 - <1	121-43-7
sulphuric acid	0.1 - <0.2	7664-93-9

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.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

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.

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

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Section 4.	First aid	measures

Notes to physician Specific treatments		Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
Potential acute health effects	5	
Eye contact	1	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. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	:	May be harmful if swallowed. May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

Date of issue

See toxicological information (Section 11)

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. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
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

Section 6. Accidental release measures

Personal precautions, p	rotective 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.

Code 000001013217 Product name SIGMAZIN	C 158 BINDER	Date of issue	2 July 2024	Version 1
Section 6. Accide	ntal releas	se measures		
For emergency responders	information ir		and unsuitable materi	
Environmental precautions	drains and se environmenta	wers. Inform the relevel pollution (sewers, wa	ant authorities if the pi	roduct has caused Vater polluting material.
Methods and materials for c	ontainment and	cleaning up		
Small spill	and explosion Alternatively,	n-proof equipment. Dil or if water-insoluble, a	ainers from spill area. lute with water and mo bsorb with an inert dry er. Dispose of via a lice	p up if water-soluble. material and place in an
Large spill	and explosion sewers, water effluent treatm combustible, a and place in c Dispose of via material may	n-proof equipment. Ap courses, basements nent plant or proceed absorbent material e.g container for disposal a a a licensed waste disp pose the same hazard	or confined areas. Wa as follows. Contain an J. sand, earth, vermicul according to local regul posal contractor. Cont	pwind. Prevent entry into ash spillages into an d collect spillage with non- lite or diatomaceous earth lations (see Section 13). aminated absorbent . Note: see Section 1 for
Section 7. Handli	ng and sto	orage		
Precautions for safe	: Put on appr	opriate personal prote	ctive equipment (see S	Section 8). Avoid exposure -

Precautions for safe handling	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. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

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Control parameters		
Occupational exposure limit	t <u>s</u>	
crystalline silica, respirable po	owder (>10 microns)	Ministry of Health (Chile, 2/2018). TWA: 0.08 mg/m³ 8 hours. Form:
1-Metoxi-2-propanol		Respirable fraction ACGIH TLV (United States, 7/2023). STEL: 369 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 184 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
xileno		Ministry of Health (Chile, 2/2018). [Xileno] STEL: 651 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 380 mg/m ³ 8 hours. TWA: 87 ppm 8 hours.
Silicic acid, ethyl ester Silicato de tetraetilo		Not regulated. ACGIH TLV (United States, 7/2023). TWA: 85 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
Etilbenceno		Ministry of Health (Chile, 2/2018). STEL: 543 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 380 mg/m ³ 8 hours. TWA: 87 ppm 8 hours.
crystalline silica, respirable po	owder (<10 microns)	Ministry of Health (Chile, 2/2018). TWA: 0.08 mg/m³ 8 hours. Form: Respirable fraction
Talc , not containing asbestife	orm fibres	Ministry of Health (Chile, 2/2018). TWA: 1.75 mg/m ³ 8 hours. Form: Respirable fraction
Metanol		Ministry of Health (Chile, 2/2018). Absorbed through skin. STEL: 328 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 229 mg/m ³ 8 hours. TWA: 175 ppm 8 hours.
Recommended monitoring procedures		e to appropriate monitoring standards. Reference to nts for methods for the determination of hazardous quired.
Appropriate engineering controls	ventilation or other enginee contaminants below any re also need to keep gas, vap limits. Use explosion-proo	
Environmental exposure controls	they comply with the requir cases, fume scrubbers, filt	or work process equipment should be checked to ensure rements of environmental protection legislation. In some ers or engineering modifications to the process ry to reduce emissions to acceptable levels.

Individual protection measures

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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 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

<u>Appearance</u>		
Physical state	: Liquid.	
Color	: Colorless.	
Odor	: Characteristic.	
рН	: Not applicable.	
Melting point	: Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	: Closed cup: 16.5°C (61.7°F)	
Evaporation rate	: Not available.	
Flammability (solid, gas)	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
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Section 9. Physical and chemical properties

Relative density	:	1.18	
Solubility(ies)		Media	Result
	Ċ	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	270°C (518°F)	
Decomposition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)	

Section 10. Stability and reactivity

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Reactivity	No specific test data related to reactivity available for this product or its ingredient	s.
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.	
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 mate carbon oxides metal oxide/oxides	rials:

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	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
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
trimethyl borate	LD50 Dermal	Rabbit	1.98 g/kg	-
-	LD50 Oral	Rat	6.14 g/kg	-
sulphuric acid	LD50 Oral	Rat	2140 mg/kg	-

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Section 11. Toxicological information

Conclusion/Summary

: There are no data available on the mixture itself.

xylene Skin - Moderate irritant Rabbit - 24 hours 500 mg - Conclusion/Summary Skin : There are no data available on the mixture itself. -	(ylene			Species	Score	Exposure				
Skin : There are no data available on the mixture itself. Eyes : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Sensitization Not available. Conclusion/Summary : There are no data available on the mixture itself. Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity : There are no data available on the mixture itself. Mutagenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Not available. Conclusion/Summary : There are no data available on the mixture itself. Classification : Product/ingredient name OSHA IARC NTP crystalline silica, respirable powder (>10 microns) : xylene : 3 etrylbenzene : 2B crystalline silica, respirable powder (<10 microns)		Skin - Mod	erate irritant	Rabbit	-		-			
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ClassificationProduct/ingredient nameOSHAIARCNTPcrystalline silica, respirable powder (>10 microns) xylene+1Known to be a human carcinogen.owder (>10 microns) crystalline silica, respirable powder (<10 microns)	√ot available.									
Product/ingredient nameOSHAIARCNTPcrystalline silica, respirable powder (>10 microns) xylene ethylbenzene crystalline silica, respirable powder (<10 microns)	Conclusion/Summary	: There ar	e no data ava	ailable on the mix	xture itself.					
crystalline silica, respirable powder (>10 microns)+1Known to be a human carcinogen.xylene ethylbenzene crystalline silica, respirable powder (<10 microns)	Classification									
powder (>10 microns)-3xylene-3ethylbenzene-2Bcrystalline silica, respirable+1powder (<10 microns)	Product/ingredient name	OSHA	IARC N	ITP						
xylene-3-ethylbenzene-2B-crystalline silica, respirable+1Known to be a human carcinogen.powder (<10 microns)		+	1 K	Known to be a hu	man carcinoç	gen.				
crystalline silica, respirable + 1 Known to be a human carcinogen.		-	3 -							
powder (<10 microns)		-								
sulphuric acid - 1 Known to be a human carcinogen.		+ 1 Known to be a human carcinogen.								
	sulphuric acid	-	1 K	Known to be a hu	man carcinog	gen.				

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Not available.

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

Teratogenicity

Not available.

Conclusion/Summary : There are no data available on the mixture itself. <u>Specific target organ toxicity (single exposure)</u>

Chile

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
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
methanol	Category 1	-	-
trimethyl borate	Category 1	-	optic nerve

Date of issue

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	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, cardiovascular system, 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	:	Not available.
Potential acute health effects		
Eye contact	1	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. May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	:	May be harmful if swallowed. May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain or irritation watering redness

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Section 11. Toxicological information

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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	
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 effects 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	1	There are no data available on the mixture itself.
		English (US) Chile 11/15

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Section 11. Toxicological information

Potential chronic health effects

Not available.

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.
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 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)
SIGMAZINC 158 BINDER	4579.4	3848.9	N/A	28.6	5.2
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

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
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	-
methanol	Acute LC50 13 mg/l Fresh water	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
xylene ethylbenzene	-		-		Readily Readily	

Bioaccumulative potential

English (US)	Chile	12/15
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Code 000001013217 Product name SIGMAZIN	C 158 BINDER	Date of issue	2 July 2024	Version 1
Section 12. Ecolo	gical info	rmation		
Product/ingredient name	LogPow	BCF		Potential
1-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 - 79.43 - -	3.5	Low Low Low Low Low Low
Mobility in soil Soil/water partition coefficient (K _{oc})	: Not availab	le.		
Other adverse effects	: No known s	significant effects or critic	al hazards.	
Section 13. Dispo	sal consid	derations		
Disposal methods	Disposal of with the req and any reg recyclable p disposed of all authoritie or landfill sh and its cont handling en containers of residues ma container. cleaned tho	tion of waste should be a this product, solutions a guirements of environmen gional local authority requ products via a licensed w f untreated to the sewer of es with jurisdiction. Was hould only be considered tainer must be disposed nptied containers that ha or liners may retain some ay create a highly flamm Do not cut, weld or grind proughly internally. Avoid n soil, waterways, drains	nd any by-products sh ntal protection and was irrements. Dispose of raste disposal contract unless fully compliant was te packaging should b when recycling is not of in a safe way. Care we not been cleaned of e product residues. Va able or explosive atmo- used containers unless dispersal of spilled m	ould at all times comply ste disposal legislation surplus and non- or. Waste should not be with the requirements of e recycled. Incineration feasible. This material e should be taken when or rinsed out. Empty apor from product osphere inside the ss they have been
Section 14. Trans	port infor	mation		
	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group	II	П	П	II
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

UN

: None identified.

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Brazil	: None identified.
Risk number	: 33
IMDG	: None identified.
ΙΑΤΑ	: None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product	 NCh 382 - Hazardous substances - General terminology and classification. NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order. D. S. 148 - Sanitary regulations on hazardous waste management. D. S. 298 - Transport of dangerous goods by road. D. S. 374 – Limit for Lead content in paints.
	D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.

Section 16. Other information

<u>History</u>	
Date of previous issue	: No previous validation
Version	: 1 EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	: ABNT NBR 14725-4: 2014 ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

Disclaimer

Chile

2 July 2024

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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.

Date of issue