SAFETY DATA SHEET



Date of issue 23 December 2021

Version 1

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMAZINC 158/SIGMAGUARD 750 PIGMENT
- : 00444811
- : Not available.
 - : Powder.

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

Identified uses

Supplier's details:

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

oupprier 5 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 9 82939315

Section 2. Hazards identification

Classification of the substance or mixture	: AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
GHS label elements	
Hazard pictograms	:
Signal word	: Warning
Hazard statements	: Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Avoid release to the environment.

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Product nam	le	SIGMAZINC 158/SIGMAGUARD 750 PIGMENT				

Section 2. Hazards identification

Response	1	Collect spillage.
Storage	1	Not applicable.
Disposal	1	Not applicable.
Other hazards which do not result in classification	:	May form explosible dust-air mixture if dispersed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Classification according to NCh382:	:	9
Label according to NCh2190:	:	

Section 3. Composition/information on ingredients

Substance/mixture : Mixture : Not available. Other means of identification

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
Zinc powder - zinc dust (stabilized) zinc oxide	60 - 100 0.5 - <1	7440-66-6 1314-13-2

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

	: Treat symptomatically. Contact poison treatment specialist immediately if large
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.
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.
	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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	Product nam	e	SIGMAZINC 158/SIGMAGUARD 75	0 PIGMENT			
	Code	00444811		Date of issue	23 December 2021	Version	1

Section 4. First aid measures				
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.		
Potential acute health effects	2			
Eye contact	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.		
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.		
Skin contact	1	No known significant effects or critical hazards.		
Ingestion	1	No known significant effects or critical hazards.		

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: May form explosible dust-air mixture if dispersed. This material is very toxic to aquatic life with long lasting effects. 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: 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 dust. 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Section 6. Accidental release measures

Methods and mater	ials for containment and cleaning up
Small spill	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: 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. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
	Not regulated. Ministry of Health (Chile, 2/2018). STEL: 10 mg/m ³ 15 minutes. Form: Fume TWA: 4.4 mg/m ³ 8 hours. Form: Fume

English (US)	Chile
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Section 8. Exp	oosure controls/	personal	protection
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Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectivenes of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineerin 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-proo ventilation equipment.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensur 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.
ndividual protection measur	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye protection	: Safety glasses with side shields.
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 indicate this is necessary. Considering the parameters specified by the glove manufactured 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.
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.
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 necessary.

Chile

Section 9. Physical and chemical properties

Appearance Physical state

Color : Odor :	Solid. Powder. Various Characteristic.
Odor	Various
Odor	
	Characteristic.
nH	
pu .	Not applicable.
Melting point	Not available.
Boiling point	Not available.
Flash point	Closed cup: Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
	Not applicable.
(flammable) limits	- NI-6
	Not available.
	Not applicable.
Relative density	. 7.14
Solubility	Insoluble in the following materials: cold water.
Partition coefficient: n-	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Kinematic (40°C (104°F)): Not applicable.

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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Evolves hydrogen on contact with water. Depending on conditions, decomposition products may include the following materials: metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Zinc powder - zinc dust (stabilized)	LC50 Inhalation Dusts and mists		>5.4 mg/l	4 hours
zinc oxide	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rat Rat	>2000 mg/kg >5700 mg/m ³ >2000 mg/kg >5000 mg/kg	- 4 hours - -
Conclusion/Summary Irritation/Corrosion Not available.	: There are no data available on	the mixture its	elf.	
Conclusion/Summary Skin Eyes Respiratory Sensitization Not available.	 There are no data available on There are no data available on There are no data available on 	the mixture its	elf.	
Conclusion/Summary Skin Respiratory <u>Mutagenicity</u> Not available.	: There are no data available on : There are no data available on			
Conclusion/Summary Carcinogenicity Not available.	: There are no data available on	the mixture its	elf.	
Conclusion/Summary Reproductive toxicity Not available.	: There are no data available on	the mixture its	elf.	
Conclusion/Summary Teratogenicity Not available.	: There are no data available on	the mixture its	elf.	
Conclusion/Summary Specific target organ toxic Not available.	: There are no data available on ity (single exposure)	the mixture its	elf.	
<u>Specific target organ toxic</u> Not available.	<u>ity (repeated exposure)</u>			
Aspiration hazard Not available.				

Chile

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Section 11. Toxicological information

routes of exposure	: Not available.			
Potential acute health effect				
Eye contact	 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. 			
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: No known significant effects or critical hazards.			
Symptoms related to the ph	sical, chemical and toxicological characteristics			
Eye contact	: Adverse symptoms may include the following: irritation redness			
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing			
Skin contact	: No specific data.			
Ingestion	: No specific data.			
	ts and also chronic effects from short and long term exposure			
Conclusion/Summary	: There are no data available on the mixture itself. Repeated exposure of the eyes			
Conclusion/Cummary	a low level of dust can produce eye irritation. Repeated exposure of the eyes a low level of dust can produce eye irritation. Repeated or prolonged inhalation o dust may lead to chronic respiratory irritation. 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 lo term exposure by oral, inhalation and dermal routes of exposure and eye contact.			
Short term exposure	a low level of dust can produce eye irritation. Repeated or prolonged inhalation o dust may lead to chronic respiratory irritation. 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 lo			
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<u>Short term exposure</u> Potential immediate	a low level of dust can produce eye irritation. Repeated or prolonged inhalation o dust may lead to chronic respiratory irritation. 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 lo term exposure by oral, inhalation and dermal routes of exposure and eye contact.			
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Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	 a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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 lo term exposure by oral, inhalation and dermal routes of exposure and eye contact. There are no data available on the mixture itself. There are no data available on the mixture itself. 			
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Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects	 a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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 lo term exposure by oral, inhalation and dermal routes of exposure and eye contact. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. 			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available.	 a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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 lo term exposure by oral, inhalation and dermal routes of exposure and eye contact. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. 			
Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health eff Not available. General	 a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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 lot term exposure by oral, inhalation and dermal routes of exposure and eye contact. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. There are no data available on the mixture itself. 			

Numerical measures of toxicity

Acute toxicity estimates

Chile

Code Product nam	00444811 <mark>e</mark>	C SIGMAZINC 158/SIGMAGUARD 750 I	ate of issue PIGMENT	23 Dec	ember 2021	Version	1
Sectio	n 11. ˈ	Toxicological infor	mation				
Product/i	ngredien	t name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
zinc oxide			N/A	2500	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

E	C	oto)X	C	ty	
-						

Product/ingredient name	Result	Species	Exposure
Zinc powder - zinc dust (stabilized)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
zinc oxide	Chronic NOEC 0.0727 mg/l Fresh water Acute EC50 0.17 mg/l Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia Magna Algae Daphnia - Daphnia magna - Neonate	21 days 72 hours 48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

English (US)	Chile	

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
	(Zinc powder - zinc dust (stabilized))			
Transport hazard class(es)	9	9	9	9
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.

Additional inform	nation
UN	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Brazil	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Risk number	: 90
IMDG	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. The segregation group has been manually assigned based upon product analysis.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Special precaution	ons 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	: NCh 382 - Hazardous substances - General terminology and classification.
environmental regulations	NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order.
specific for the product	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.

English (US)	Chile	

Section 16. Other information

ΠΙδίΟΓΥ

<u>inotory</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

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.

Chile