SAFETY DATA SHEET



Date of issue 11 June 2024

Version 5.13

Section 1. Product and company identification

Product name	
Product code	
Other means of identification	
Product type	

- : SIGMAZINC 158/SIGMAGUARD 750 PIGMENT
- : 00140360
- n : Not available.
 - Powder.

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 Industrial do Brasil – Tintas e Vernizes Ltda Via Anhanguera KM 106, Bairro Sao Judas Tadeu Sumare / SP, Brasil 55 19 2103-6000 (Recepção e Portaria)
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: 0800 707 1767 / 0800 707 7022 – Empresa Suatrans Cotec 0800 14 8110 – CEATOX - Centro de Assistência Toxicológica

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.
Response	: Collect spillage.

Brazil

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Section 2. Hazards identification

Storage	1	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.

Section 3. Composition/information on ingredients

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

CAS number/other identifiers

CAS number	: Not applicable.		
Ingredient name		%	CAS number
Zinc powder - zinc dust (stabi	lized)	60 - 100	7440-66-6

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 fire	<u>st a</u>	<u>id measures</u>	
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 breathin 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.	d
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label Keep person warm and at rest. Do NOT induce vomiting.	l.
Indication of immediate med	lica	I attention and special treatment needed, if necessary	
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	1	No action shall be taken involving any personal risk or without suitable training.	
Potential acute health effect	<u>s</u>		
Eye contact	1	Exposure to airborne concentrations above statutory or recommended exposur limits may cause irritation of the eyes.	e
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposur limits may cause irritation of the nose, throat and lungs.	e
Skin contact	1	No known significant effects or critical hazards.	
Ingestion	1	No known significant effects or critical hazards.	
		English (US) Brazil	2/10

Section 4. First aid measures

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 For emergency responders		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. Put on appropriate personal protective equipment. 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.
Methods and materials for c	on	tainment 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.

English (US)

Brazil

Section 6. Accidental release measures

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

<u>Control parameters</u>	
Occupational exposure limit	<u>S</u>
None.	
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. If user operations generate dust, fumes, gas, vapor or mist, 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 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 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.
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 is necessary.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	Solid.	
	Powder.	
Color	Not available.	
Odor	Aromatic.	
рН	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.	
Lower and upper explosive (flammable) limits	Not applicable.	
Vapor pressure	Not available.	
Vapor density	Not applicable.	
Relative density	7.1	
Solubility(ies)	Media Result	
oolubility(103)	old water Not soluble	

Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: 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	Rat	>5.4 mg/l	4 hours
	LD50 Oral	Rat	>2000 mg/kg	-
Conclusion/Summary	: There are no data available on	the mixture its	elf.	
Irritation/Corrosion Not available.				
Conclusion/Summary				
Skin	: There are no data available on	the mixture its	elf.	
Eyes	: There are no data available on	the mixture its	elf.	
Respiratory	: There are no data available on	the mixture its	elf.	
Sensitization				
Not available.				
Conclusion/Summary				
Skin	: There are no data available on	the mixture its	elf.	
Respiratory	: There are no data available on	the mixture its	elf.	
Mutagenicity				
Not available.				
Conclusion/Summary	: There are no data available on	the mixture its	elf.	
		English (US	6) Brazil	6/1

Product name SIGMA	Date of issue AZINC 158/SIGMAGUARD 750 PIGMENT	11 June 2024	Version	5.13
Section 11. Tox	cicological information			
Carcinogenicity Not available.				
Conclusion/Summary Reproductive toxicity Not available.	: There are no data available on th	e mixture itself.		
Conclusion/Summary Teratogenicity Not available.	: There are no data available on th	e mixture itself.		
Conclusion/Summary Specific target organ to Not available.		e mixture itself.		
	<u>oxicity (repeated exposure)</u>			
Not available.				
Not available. <u>Aspiration hazard</u> Not available.				
Aspiration hazard Not available. nformation on the likely	v : Not available.			
Aspiration hazard Not available. nformation on the likely outes of exposure				
Aspiration hazard Not available. Information on the likely routes of exposure			commended exp	oosure
Aspiration hazard Not available. nformation on the likely outes of exposure Potential acute health effe	fects : Exposure to airborne concentration	eyes. ons above statutory or re		
Aspiration hazard Not available. nformation on the likely outes of exposure Potential acute health effe Eye contact	 ifects Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration 	eyes. ons above statutory or re lose, throat and lungs.		
Aspiration hazard Not available. nformation on the likely outes of exposure Potential acute health effe Eye contact Inhalation	 Fects Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration limits may cause irritation of the results of the	eyes. ons above statutory or re lose, throat and lungs. itical hazards.		
Aspiration hazard Not available. nformation on the likely outes of exposure Potential acute health effe Eye contact Inhalation Skin contact Ingestion	 Fects Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration limits may cause irritation of the results is a cause irritation of the results. No known significant effects or creation of the results is a cause irritation of the results. 	eyes. ons above statutory or re lose, throat and lungs. itical hazards. itical hazards.		
Aspiration hazard Not available. nformation on the likely outes of exposure Potential acute health effe Eye contact Inhalation Skin contact Ingestion	 Fects Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration limits may cause irritation of the results in the result of the resul	eyes. ons above statutory or re lose, throat and lungs. itical hazards. itical hazards. <u>haracteristics</u>		
Aspiration hazard Not available. Information on the likely outes of exposure Potential acute health effe Eye contact Inhalation Skin contact Ingestion	 Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration limits may cause irritation of the result is may cause irritation of the result is no known significant effects or cresult is no known significant effects or cresult	eyes. ons above statutory or re lose, throat and lungs. itical hazards. itical hazards. <u>haracteristics</u> he following:		
Aspiration hazard Not available. Information on the likely outes of exposure Potential acute health effe Eye contact Inhalation Skin contact Ingestion Symptoms related to the Eye contact	 ifects Exposure to airborne concentration limits may cause irritation of the exposure to airborne concentration limits may cause irritation of the response irritation of the respiration of the respiration of the respiratory tract irritation of the respiratory tract irritation 	eyes. ons above statutory or re lose, throat and lungs. itical hazards. itical hazards. <u>haracteristics</u> he following:		

Brazil

Section 11. Toxicological information

Conclusion/Summary	-	There are no data available on the mixture itself. Repeated exposure of the eyes to 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 long- term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>		
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	ect	<u>s</u>
Not available.		
General	:	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.
Numerical measures of toxic	itv	

Numerical measures of toxicity

Acute toxicity estimates

N/A

Other information

: Not available.

Section 12. Ecological information

Eco	toxi	city

Product/ingredient name	Result	Species	Exposure
Zinc powder - zinc dust (stabilized)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 354 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic LC10 185 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days

Persistence/degradability

Not available.

Bioaccumulative potential

Not available.

English (US)	Brazil

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Section 12. Ecological information

Mobility in soil

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.

Section 14. Transport information

	Brazil (ANTT)	IMDG	ΙΑΤΑ	
UN number	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.	
	(Zinc powder - zinc dust (stabilized))	(Zinc powder - zinc dust (stabilized))	(Zinc powder - zinc dust (stabilized))	
Transport hazard class(es)	9	9	9	
Packing group	III	III	III	
Environmental hazards	Yes.	Yes.	Yes.	
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized))	Not applicable.	

Additional information			
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.		

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	English (US)	Brazil	9/10

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Ocation 44. There are out information					

Section 14. Transport information

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		

: No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

<u>History</u>

Date of previous issue Version Prepared by	: 11/7/2021 : 5.13 : 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.