SAFETY DATA SHEET



Date of issue/Date of revision 9 August 2024 Version 3.03

Section 1. Identification of the substance/mixture and of the company/undertaking

Product code	:	00284642
Product name	:	AMERCOAT 68 HS POWDER
Other means of identification	:	Not available.
Product type	1	Powder.

Relevant identified uses of the substance or mixture and uses advised against			
Product use	Coating. Professional applications, Used by spraying.		
Uses advised against	: Product is not intended, labelled or packaged for consumer use.		
Supplier's details	: PPG Coatings (Thailand) Co., Ltd. 15 Rama 9 Road, Kwaeng Huamark, Khet Bangkapi, Bangkok 10240 Thailand T: 662-319-4190 #224 F: 662-319-4189		
Emergency telephone number (with hours of operation)	: CHEMTREC 001-800-13-203-9987 (CCN 17704)		

Section 2. Hazards identification

Classification of the substance or mixture	: ACUTE TOXICITY (dermal) - Category 5 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 96.7%
<u>GHS label elements</u> Hazard pictograms	
Signal word	: Warning

Section 2. Hazards identification

Product name AMERCOAT 68 HS POWDER

Hazard statements	1	May be harmful in contact with skin.
		Very toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Avoid release to the environment.
Response	:	Collect spillage. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
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	1	Mixture
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CAS number/other identifiers			
CAS number : Not applicable.			
Ingredient name	%	CAS number	
Zinc powder - zinc dust (stabilized) zinc oxide	50-100 3 - <5	7440-66-6 1314-13-2	

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 necess	ary 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects 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 : May be harmful in contact with skin.

Section 4. First aid measures			
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/sym	<u>ptoms</u>		
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.		
Indication of immediate me	Indication of immediate medical attention and special treatment needed, if necessary		
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. 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.		

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 Methods and materials for co		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.
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
	before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Conditions for safe storage,	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in
including any	accordance with local regulations. Store in a segregated and approved area. Store
incompatibilities	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	
Źinc oxide		Ministry of Labor (Thailand, 8/2017). TWA: 5 mg/m ³ 8 hours. Form: Fume TWA: 5 mg/m ³ 8 hours. Form: Respirable dust TWA: 15 mg/m ³ 8 hours. Form: inhalable dust	
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 measure	<u>s</u>		
Hygiene measures	eating, smoking and using the lavator Appropriate techniques should be use	oughly after handling chemical products, before ry and at the end of the working period. ed to remove potentially contaminated clothing. eusing. Ensure that eyewash stations and station location.	
Eye protection	: Safety glasses with side shields.		
Skin protection			

Section 8. Exposure controls/personal 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

Appearance

/ ippoulation			
Physical state	:	Solid.	
		Powder.	
Color	1	Not available.	
Odor	:	Odorless.	
Odor threshold	:	Not available.	
рН	:	insoluble in water.	
Melting point	:	Not available.	
Boiling point	:	Not available.	
Flash point	:	Closed cup: Not applicable	
Evaporation rate	:	Not available.	
Flammability (solid, gas)	1	Not available.	
Lower and upper explosive (flammable) limits	1	Not available.	
Vapor pressure	:	Not available.	
Vapor density	:	Highest known value: 5.47	(Air = 1) (zinc oxide).
Relative density	:	7.14	
Solubility/ios)		Media	Result
Solubility(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	

Section 9. Physical and chemical properties

Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).
Viscosity	:	Kinematic (40°C): 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
		LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>5.4 mg/l >2000 mg/kg	4 hours -
zinc oxide		LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rat	>5700 mg/m³ >2000 mg/kg >5000 mg/kg	4 hours - -
Conclusion/Summary	: There a	re no data available on the mixture	itself.		
Irritation/Corrosion					
Conclusion/Summary					
Skin	: There a	re no data available on the mixture	itself.		
Eyes	: There a	re no data available on the mixture	itself.		
Respiratory	: There are no data available on the mixture itself.				
Sensitization					
Conclusion/Summary					
Skin	: There a	re no data available on the mixture	itself.		
Respiratory	: There a	re no data available on the mixture	itself.		
Mutagenicity					
Conclusion/Summary	: There a	re no data available on the mixture	itself.		

Section 11. Toxicological information

Carcinogenicity

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

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

Specific target organ toxicity (single exposure)

Not available.

<u>Specific target organ toxicity (repeated exposure)</u> Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	1	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	:	May be harmful in contact with skin.
Ingestion	:	No known significant effects or critical hazards.

Symptoms related to the physical, 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.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Long term exposure

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Section 11. Toxicological information

Potential immediate effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

- **Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity

General

No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	2500 mg/kg

Other information

Sanding and grinding dusts may be harmful if inhaled.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
✓inc 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
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Conclusion/Summary

: There are no data available on the mixture itself.

Persistence/degradability

Not available.

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

Bioaccumulative potential

Not available.

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Section 12. Ecological information

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
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

	UN	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 oxide)	(Zinc powder - zinc dust (stabilized), zinc oxide)	(Zinc powder - zinc dust (stabilized), zinc oxide)
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

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.
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.

Product code 00284642

Product name AMERCOAT 68 HS POWDER

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

Harmful Chemicals List

: Listed

- Safety, health and environmental regulations specific for the product
- : No known specific national and/or regional regulations applicable to this product (including its ingredients).

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

<u>History</u>			
Date of issue/Date of revision	: 9 August 2024		
Date of previous issue	: 11/21/2022		
Version	: 3.03		
Prepared by	: 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 		
Indicates information that has changed from previously issued version.			

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Notice to reader

Section 16 Other informatio

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.