# **SAFETY DATA SHEET**

PPG

Version1.08

Date of issue/Date of revision 7 November 2021

Section 1. Identification

Product code	: 00336576
Product name	: HI-TEMP 1050ZN ZINC POWDER GAL
Other means of identification	: Not available.
Product type	: 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	: PT PPG Coatings Indonesia JI. Rawagelam III No.1 13930 Jakarta Indonesia Tel +62 21 4605710 PMC.Safety@PPG.com
Emergency telephone number	: CHEMTREC 001-803-017-9114 (CCN 17704)

# Section 2. Hazards identification

Classification of the	: AQUATIC HAZARD (ACUTE) - Category 1
substance or mixture	AQUATIC HAZARD (LONG-TERM) - Category 1

#### GHS label elements, including precautionary statements

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Hazard pictograms



Signal word	arning	
Hazard statements	ry toxic to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	oid release to the environment.	
Response	llect spillage.	
Storage	t applicable.	
Disposal	pose of contents and container in accordance with all local, d international regulations.	, regional, national

Product code 00336576

Date of issue 7 November 2021 Version 1.08

#### Product name HI-TEMP 1050ZN ZINC POWDER GAL

### Section 2. Hazards identification

result in classification

Other hazards which do not : 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

CAS number/other identifiers		
CAS number	÷	Not applicable.
EC number	:	Mixture.
Ingredient name		
Zinc powder - zinc dust (stabiliz	ec	d)

Ingredient name	%	CAS number
Znc powder - zinc dust (stabilized)	50- 100	7440-66-6
zinc oxide	1- <3	1314-13-2

There are no 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.

SUB codes represent substances without registered CAS Numbers.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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 sympt	oms/effects, acute and delayed
Potential acute healt	h effects
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.</li> </ul>
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	s/symptoms
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.
	Indonesia <sup>*</sup> Page: 2/1

Page: 2/11 Indonesia

### Section 4. First aid measures

Ingestion

: No specific data.

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

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
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.

#### 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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### 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	materials for	or 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

Protective measures	:	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.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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

# Section 8. Exposure controls/personal protection

Ingredient name	Exposu	ure limits
Źinc oxide	Indone TWA: fraction STEL:	er of Labor of the Republic of sia (Indonesia, 4/2018). 2 mg/m <sup>3</sup> 8 hours. Form: respirable and vapor 10 mg/m <sup>3</sup> 15 minutes. Form: ble fraction and vapor
Recommended monitoring procedures	f this product contains ingredients with exposit atmosphere or biological monitoring may be re- of the ventilation or other control measures an- protective equipment. Reference should be m standards. Reference to national guidance do determination of hazardous substances will als	equired to determine the effectiveness d/or the necessity to use respiratory ade to appropriate monitoring cuments for methods for the
Appropriate engineering controls	Use only with adequate ventilation. If user operators of the process enclosures, local exponents to keep worker exposure to airborne of the ecommended or statutory limits. The engineer vapor or dust concentrations below any lower of ventilation equipment.	xhaust ventilation or other engineering contaminants below any ering controls also need to keep gas,
Environmental exposure controls	Emissions from ventilation or work process eq hey comply with the requirements of environm cases, fume scrubbers, filters or engineering n equipment will be necessary to reduce emission	nental protection legislation. In some nodifications to the process
Individual protection measu		
Hygiene measures	Wash hands, forearms and face thoroughly after eating, smoking and using the lavatory and at Appropriate techniques should be used to rem Wash contaminated clothing before reusing. E Eafety showers are close to the workstation loo	the end of the working period. love potentially contaminated clothing. Ensure that eyewash stations and
Eye/face protection	Safety glasses with side shields.	
Skin protection		
Hand protection	Chemical-resistant, impervious gloves comply be worn at all times when handling chemical p his is necessary. Considering the parameters check during use that the gloves are still retain should be noted that the time to breakthrough different for different glove manufacturers. In the several substances, the protection time of the estimated.	roducts if a risk assessment indicates s specified by the glove manufacturer, ning their protective properties. It for any glove material may be the case of mixtures, consisting of
Body protection	Personal protective equipment for the body sh being performed and the risks involved and sh before handling this product.	
Other skin protection	Appropriate footwear and any additional skin p selected based on the task being performed a approved by a specialist before handling this p	nd the risks involved and should be

Product code 00336576

Date of issue 7 November 2021 Version 1.08

Product name HI-TEMP 1050ZN ZINC POWDER GAL

# Section 8. Exposure controls/personal protection

	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.
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# **Section 9. Physical and chemical properties**

<u>Appearance</u>		
Physical state	1	Solid.
		Powder.
Color	4	Gray.
Odor	1	Characteristic.
Odor threshold	1	Not available.
рН	1	Not applicable.
Melting point	1	Not available.
Boiling point	1	Not available.
Flash point	1	Closed cup: Not applicable.
Evaporation rate	1	Not available.
Flammability/Combustible properties (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	:	Not applicable.
Relative density	1	7.14
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	1	Not available.
Viscosity	:	Kinematic (40°C): Not applicable.

# Section 10. Stability and reactivity

	Indonesia <sup>:</sup> Page: 6/11	
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.	
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Chemical stability	: The product is stable.	
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	

Product code 00336576

Product name HI-TEMP 1050ZN ZINC POWDER GAL

### Section 10. Stability and reactivity

**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	-
zinc oxide	LC50 Inhalation Dusts and mists		>5700 mg/m³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: There are no data available on	the mixture its	self.	
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available or	n the mixture it	tself.	
Eyes	: There are no data available or	n the mixture it	tself.	
Respiratory	: There are no data available or	n the mixture it	tself.	
Sensitization				
Conclusion/Summary				
Skin	: There are no data available or	n the mixture i	tself.	
Respiratory	: There are no data available or	n the mixture it	tself.	
Mutagenicity				
Conclusion/Summary	: There are no data available or	n the mixture it	tself.	
Carcinogenicity				
Conclusion/Summary	: There are no data available or	n the mixture i	tself.	
Reproductive toxicity				
Conclusion/Summary	: There are no data available or	n the mixture it	tself.	
<u>Feratogenicity</u>				
Conclusion/Summary	: There are no data available or	n the mixture if	tself.	
<u>Specific target organ toxici</u>	<u>ty (single exposure)</u>			
Not available.	-			
Specific target organ toxici	ty (repeated exposure)			
Not available.				
Aspiration hazard				
Not available.				
formation on the likely	: Not available.			
outes of exposure				
otential acute health effects				
Eye contact	: Exposure to airborne concent		statutory or recomm	ended exposure
	limits may cause irritation of the	ie eyes.		

# Section 11. Toxicological information

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 phy	vsical, 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 effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: There are no data available on the mixture itself.
Potential immediate effects	: There are no data available on the mixture itself.
Potential immediate effects Potential delayed effects	
Potential immediate effects	: There are no data available on the mixture itself.
Potential immediate effects Potential delayed effects Long term exposure Potential immediate	<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health eff General	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.</li> </ul>

#### Numerical measures of toxicity

Acute toxicity estimates

Not available.

#### Other information

Sanding and grinding dusts may be harmful if inhaled.

# Section 12. Ecological information

2

**Toxicity** 

# Section 12. Ecological information

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

	UN	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder - zinc dust (stabilized), zinc oxide)
Transport hazard class(es)	9	9	9
Packing group			
	1	I	Indonesia <sup>:</sup> Page: 9/11

Product code 00336576 Product name HI-TEMP 1050ZN ZINC POWDER GAL

# Section 14. Transport information

Environmental	Yes.	Yes.	Yes.
hazards			
Marine pollutant substances	Not applicable.	(Zinc powder - zinc dust (stabilized), zinc oxide)	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	If 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 precauti	ions 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 bul to IMO instrume	Ik according : Not applicable. ents

# Section 15. Regulatory information

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

#### Law No. 74/2001 - Banned

None of the components are listed.

#### Law No. 74/2001 - Restricted

None of the components are listed.

Law No. 74/2001 - : Not determined Chemicals that may be used

#### 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	: 7 November 2021
Date of previous issue	: 6/17/2019
Version	: 1.08
Prepared by	: EHS

Product code 00336576 Product name HI-TEMP 1050ZN ZINC POWDER GAL

### Section 16. Other information

Kou to obbroviations	ADN = European Dravisions concerning the International Carriage of Dangerous
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.

#### Notice to reader

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.