### SAFETY DATA SHEET

#### **DIMETCOTE 21-5/4A POWDER**



Date of issue 30 September

2024

**Version 6** 

## 1. Product and company identification

Product name : DIMETCOTE 21-5/4A POWDER

Product code : 00281168
Product type : Powder.

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

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Supplier's details : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe

652-0803 Japan; Tel: +81-78-574-2777

**Emergency telephone** 

number

: 078 574 2777

### 2. Hazards identification

GHS Classification : EYE IRRITATION - Category 2B

CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 1

HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD -

Category 1

**GHS** label elements

Hazard pictograms





Signal word : Danger

**Hazard statements** : Zauses eye irritation.

May cause cancer.

May cause damage to organs. (respiratory organs, systemic toxicity)

May cause damage to organs through prolonged or repeated exposure. (respiratory

organs)

Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

Prevention : Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash thoroughly after

handling.

Japan Page: 1/12

Product code 00281168 Date of issue 30 September Version 6

**Product name DIMETCOTE 21-5/4A POWDER** 

### 2. Hazards identification

: Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF Response

> IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

2024

advice or attention.

: Store locked up. Storage

: Dispose of contents and container in accordance with all local, regional, national **Disposal** 

and international regulations.

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.

## 3. Composition/information on ingredients

Substance/mixture

#### **CAS** number/other identifiers

**CAS** number : Not applicable. **CSCL** number : Not available.

Ingredient name	%	CAS number	CSCL
zínc powder - zinc dust (stabilized)	50 - 100	7440-66-6	Not available.
Mica Zinc oxide	3 - <5  1 - <2	12001-26-2 1314-13-2	Not available. 1-561
Crystalline silica (quartz)	0.2 - < 0.5	14808-60-7	1-548

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.

### 4. First aid measures

#### **Description of necessary first aid measures**

: Remove contact lenses, irrigate copiously with clean, fresh water, holding the Eye contact

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.

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and **Skin contact** 

water or use recognized skin cleanser. Do NOT use solvents or thinners.

If swallowed, seek medical advice immediately and show this container or label. Ingestion

Keep person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact : Causes eye irritation.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

**Skin contact** : May cause damage to organs following a single exposure in contact with skin.

Ingestion May cause damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

Japan Page: 2/12 Product code 00281168 Date of issue 30 September Version 6

**Product name DIMETCOTE 21-5/4A POWDER** 

#### 4. First aid measures

Eye contact Adverse symptoms may include the following:

> irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** No specific data. Ingestion No specific data.

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

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

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. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

2024

thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

**Unsuitable extinguishing** 

media

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products

**Special protective actions** for fire-fighters

**Special protective** equipment for fire-fighters : Use dry chemical powder.

: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

: 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.

: Decomposition products may include the following materials: metal oxide/oxides

oxides of lead

: 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.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

> Japan Page: 3/12

### 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.

#### Methods and materials for containment and cleaning up

#### **Small spill**

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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.

## 7. Handling and storage

#### **Precautions for safe** handling

: Put on appropriate personal protective equipment (see Section 8). Avoid exposure obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. 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: Storage temperature: 5 to 35°C (41 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See

> **Japan** Page: 4/12

### 7. Handling and storage

Section 10 for incompatible materials before handling or use.

### 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
rystalline silica, respirable powder (<10 microns)	Japan Society for Occupational Health (Japan, 5/2023) [Respirable crystalline silica]  OEL-C: 0.03 mg/m³. Form: Respirable dust.

# procedures

**Recommended monitoring**: 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**

**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 **Skin protection**

: Safety glasses with side shields.

# **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.

> Japan Page: 5/12

Product code 00281168

Date of issue 30 September 2024

Version 6

**Product name DIMETCOTE 21-5/4A POWDER** 

### 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.

### 9. Physical and chemical properties

**Appearance** 

Physical state : Solid.

Powder.

Odor : Odorless.

Flash point : Closed cup: Not applicable.

**Relative density** : 6.76

Solubility(ies) : Media Result

cold water Partially soluble

### 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

### 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	Rat	>5700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

#### Irritation/Corrosion

Not available.

Japan Page: 6/12

Product code 00281168

Date of issue 30 September 2024

Version 6

**Product name DIMETCOTE 21-5/4A POWDER** 

### 11. Toxicological information

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Zinc oxide	Category 1		respiratory organs, systemic toxicity

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Mica Crystalline silica (quartz)	Category 1 Category 1	-	respiratory organs immune system, kidneys, respiratory organs

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes eye irritation.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

**Skin contact** : May cause damage to organs following a single exposure in contact with skin.

Ingestion : May cause damage to organs following a single exposure if swallowed.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact** : No specific data. Ingestion : No specific data.

**Japan** Page: 7/12 Product code 00281168

Date of issue 30 September Version 6
2024

#### **Product name DIMETCOTE 21-5/4A POWDER**

### 11. Toxicological information

### 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** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Repeated

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

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.Reproductive toxicity : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/l)
Zinc oxide	N/A	2500	N/A	N/A	N/A

#### Other information

Sanding and grinding dusts may be harmful if inhaled.

## 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
zínc 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

#### Persistence/degradability

Not available.

#### **Bioaccumulative potential**

Not available.

	Japan	Page: 8/12

### 12. Ecological information

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

**Mobility** 

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

### 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.

### 14. Transport information

	UN	IMDG	IATA
UN number	UN3077	UN3077	UN3077
UN proper ENVIRONMENTALLY ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 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.

**IATA** 

: 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.

Japan Page: 9/12

### 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

### 15. Regulatory information

#### Fire Service Law

None of the components are listed.

#### Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

#### **Industrial Safety and Health Act**

#### Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

#### Substance(s) requiring labelling

Ingredient name	%	Status	Reference number
☑nc oxide	≤10	Listed	188
Crystalline silica	≤10	Listed	165-2

#### **Chemicals requiring notification**

Ingredient name	%	Status	Reference number
Zinc oxide	≤10	Listed	188
Crystalline silica	≤10	Listed	165-2

#### Carcinogens based on Article 577-2 of the Ordinance on ISH

Ingredient name	%	Status	Reference number
quartz	≤10	Listed	-

#### **Mutagen**

None of the components are listed.

**Corrosive liquid** : Not listed Occupational Safety and : Combustible

**Health Law** 

Regulations on the

**Prevention of Tetraalkyl** 

**Lead Poisoning** 

: Not listed

**Harmful Substances** 

Subject to Obtaining

: Not listed

**Permission for Manufacturing** 

> **Japan** Page: 10/12

Product code 00281168

**Date of issue 30 September** 2024

Version 6

**Product name DIMETCOTE 21-5/4A POWDER** 

### 15. Regulatory information

Harmful Substances.

**Prohibited for** Manufacturing : Not listed

: Combustible

**ISHL Enforcement Order** 

**Appendix 1 - Dangerous** 

**Substances** 

Lead regulation : Not listed **Organic solvents** : Not applicable.

poisoning prevention

#### Poisonous and Deleterious Substances

None of the components are listed.

#### **Chemical Substances Control Law (CSCL)**

None of the components are listed.

**High Pressure Gas Control**: Not available.

Law

#### **Explosives Control Law**

None of the components are listed.

Law concerning prevention : Marine pollutant: P

of pollution of the ocean

#### **Maritime Safety Law**

#### Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

#### **Container class**

None of the components are listed.

**JSOH Carcinogen** : Group 1 **List of Specially Controlled** : Not listed

**Industrial Waste** 

: Not determined.

Japan inventory **Road law** : Not available.

### 16. Other information

**History** 

Date of issue/Date of : 30 September 2024

revision

**Date of previous issue** : 11/7/2021

: 6 Version Prepared by : EHS

Page: 11/12 **Japan** 

### 16. Other information

**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.

Japan Page: 12/12