# SAFETY DATA SHEET



Date of issue 3/4/2022 (month/day/year)

Version 6

### Section 1. Chemical product and company identification

A. Product name<br/>Product code: DIMETCOTE 9FD LIQUID<br/>: 00381740

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

P	Product use	:	Professional applications, Used by spraying.
	Jse of the substance/ nixture	:	Coating.
U	Jses advised against	:	Product is not intended, labelled or packaged for consumer use.
i	Supplier's or Importer's information	:	PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
	Email Address		Korea.MSDS@PPG.COM
	Emergency telephone number:	:	+82-52-210-8222

### Section 2. Hazards identification

A. Hazard classification	: AMMABLE LIQUIDS - Category 2
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	AQUATIC HAZARD (LONG-TERM) - Category 3

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

### **B.** GHS label elements, including precautionary statements

**Symbol** 



Signal word	: Danger
Hazard statements	<ul> <li>H225 - Highly flammable liquid and vapor.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H350 - May cause cancer.</li> </ul>

H412 - Harmful to aquatic life with long lasting effects.

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### Section 2. Hazards identification

Precautionary statements	3
Prevention	<ul> <li>202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.</li> </ul>
Response	<ul> <li>▶308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: <b>P</b> rolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

#### CAS number/other identifiers

**CAS** number

С

: Not applicable.

Chemical name	Common name	Identifiers	%
Sopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	20 -
			<30
Kaolin	ALUMINUM SILICATE	CAS: 1332-58-7	10 -<20
Mica-group minerals	MICA	CAS: 12001-26-2	10 -<20
2-butoxyethanol	2-BUTOXY ETHANOL	CAS: 111-76-2	10 -<20
1-methoxy-2-propanol	PROPYLENE GLYCOL MONOMETHYL	CAS: 107-98-2	5 - <10
	ETHER		
Silicic acid, ethyl ester	ETHYL SILICATE POLYMER	CAS: 11099-06-2	5 - <10
(2-methoxymethylethoxy)propanol	DIPROPYLENE GLYCOL	CAS: 34590-94-8	1 - <5
	MONOMETHYL ETHER		
silicon dioxide	SILICA	CAS: 7631-86-9	1 - <5
tetraethyl silicate	Tetraethyl Silicate	CAS: 78-10-4	1 - <5
iron hydroxide oxide yellow	IRON HYDROXIDE OXIDE	CAS: 51274-00-1	1 - <5
heptan-2-one	HEPTAN-2-ONE	CAS: 110-43-0	1 - <5
ethanol	ETHYL ALCOHOL	CAS: 64-17-5	1 - <5
Zinc chloride	ZINC CHLORIDE	CAS: 7646-85-7	0.1 - <1
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1

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# Section 3. Composition/information on ingredients

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.

### Section 4. First aid measures

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Ε.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments	1	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 thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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: carbon oxides metal oxide/oxides
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 5. Fire-fighting measures

Fire-fighting procedures : 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.

### Section 6. Accidental release measures

- A. Personal precautions, : No action shall be taken involving any personal risk or without suitable training. protective equipment and Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. emergency procedures No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **B. Environmental** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused precautions environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

- Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill : Stop leak if without risk. 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. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

A. Precautions for safe : Put on appropriate personal protective equipment (see Section 8). Avoid exposure handling 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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Section 7. Handling and storage

В.	Conditions for safe storage, including any incompatibilities	: Storage temperature: 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. 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 Section 10 for incompatible materials before handling or use.
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### Section 8. Exposure controls/personal protection

### A. Occupational exposure limits

Ingredient name	Exposure limits
sopropyl alcohol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
Kaolin	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
Mica-group minerals	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
2-butoxyethanol	Ministry of Employment and Labor
,	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
1-methoxy-2-propanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
(2-methoxymethylethoxy)propanol	Ministry of Employment and Labor
(2-memoxymethylethoxy)propanor	(Republic of Korea, 1/2020). Absorbed
	through skin.
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
tetraethyl silicate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 ppm 8 hours.
iron hydroxide oxide yellow	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form:
	Fume
	TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours.
hantan 2 ana	
heptan-2-one	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
- (h )	TWA: 50 ppm 8 hours.
ethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 1000 ppm 8 hours.
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### Section 8. Exposure controls/personal protection

	Zinc chloride crystalline silica, respirable p	oowder (<10 microns)	Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 2 mg/m <sup>3</sup> 15 minutes. Form: Fume TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Fume Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
	Recommended monitoring procedures		ay be required to determine the effectiveness ures and/or the necessity to use respiratory Id be made to appropriate monitoring ance documents for methods for the
В.	Appropriate engineering controls		s to keep worker exposure to airborne d or statutory limits. The engineering controls oncentrations below any lower explosive
	Environmental exposure controls		
C.	Personal protective equipn	nent	

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.
Eye protection	: Chemical splash goggles.
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.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: butyl rubber, nitrile rubber
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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### Section 8. Exposure controls/personal protection

: 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 evewash stations and safety showers are close to the workstation location.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### A. Appearance

Physical state	)
Color	

: Liquid.

**B.** Odor

- : Colorless. Characteristic.
- C. Odor threshold
- D. pH
- E. Melting/freezing point
- F. Boiling point/boiling range
- G. Flash point

H. Evaporation rate

- : Not available.
- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure

	Vapo	r Pressure at 20°C Vapor pr			or pressu	ressure at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
<mark>e</mark> thanol	42.95	5.7					

- L. Solubility Solubility in water
- M. Vapor density
- N. Relative density
- O. Partition coefficient: noctanol/water
- P. Auto-ignition temperature
- Q. Decomposition temperature
- **R. Viscosity** Flow time (ISO 2431) S. Molecular weight
- : Not available.
- : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- : Not available.
- : Not applicable.

#### : Not available. : Not applicable.

- : Not available.
  - : >37.78°C (>100°F)
- : Closed cup: 11°C (51.8°F)

ż

: Greatest known range: Lower: 1.3% Upper: 23% (tetraethyl silicate)

- : Insoluble in the following materials: cold water. : Not available.
- : Not available.
- 1.09
  - : Not applicable.

1	Ingredient name	°C	°F	Method
	-methoxymethylethoxy)propanol	207	404.6	EU A.15

Hygiene measures

## Section 10. Stability and reactivity

		-	-
Α.	Chemical stability	1	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

### Section 11. Toxicological information

Α.	Information on the likely routes of exposure	/ : Not available.
<u>P</u>	otential acute health effe	<u>cts</u>
	Inhalation :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion :	Can cause central nervous system (CNS) depression.
	Skin contact :	Causes skin irritation. Defatting to the skin.
	Eye contact :	Causes serious eye irritation.
<u>0</u>	<u>ver-exposure signs/sym</u>	<u>otoms</u>
	Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Ingestion :	No specific data.
	Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
	Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
в.	Health hazards	

**Acute toxicity** 

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### Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
sopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
,	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Kaolin	LC50 Inhalation Dusts and	Rat	>5.07 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>5000 mg/kg	-
2-butoxyethanol	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	1200 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
, , , ,	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
(2-methoxymethylethoxy)propanol	LC50 Inhalation Vapor	Rat	500 ppm	4 hours
	LD50 Dermal	Rabbit	9.5 g/kg	-
	LD50 Oral	Rat	5.23 g/kg	-
silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		
tetraethyl silicate	LC50 Inhalation Dusts and	Rat	10 to 16 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
iron hydroxide oxide yellow	LC50 Inhalation Dusts and	Rat	>5.05 mg/l	4 hours
····· ·· · · · · · · · · · · · · · · ·	mists		j,	
	LD50 Oral	Rat	>10 g/kg	-
heptan-2-one	LC50 Inhalation Vapor	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rat	17100 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
Zinc chloride	LD50 Oral	Rat	0.35 g/kg	

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Skin - Moderate irritant Eyes - Irritant	Rabbit Rabbit	-	4 hours 24 hours	28 days 21 days
Conclusion/Summary					
Skin	: There are no data available on the mixture itself.				
Eyes Respiratory	<ul><li>There are no data available on the mixture itself.</li><li>There are no data available on the mixture itself.</li></ul>				

### Sensitization

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

#### **Mutagenicity**

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

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### 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)

Name	Classification	Route of exposure	Target organs
Isopropyl alcohol 1-methoxy-2-propanol tetraethyl silicate	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation
heptan-2-one	Category 3	-	Narcotic effects

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

Not available.

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 2 ASPIRATION HAZARD - Category 2

#### Potential chronic health effects

General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity Mutagenicity	<ul> <li>May cause cancer. Risk of cancer depends on duration and level of exposure.</li> <li>No known significant effects or critical hazards.</li> </ul>
• •	: No known significant effects or critical hazards.

#### **Additional information**

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

# Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
sopropyl alcohol	CAS: 67-63-0	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 2
Kaolin	CAS: 1332-58-7	Not classified.
Mica-group minerals	CAS: 12001-26-2	Not classified.
2-butoxyethanol	CAS: 111-76-2	FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
1-methoxy-2-propanol	CAS: 107-98-2	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Silicic acid, ethyl ester	CAS: 11099-06-2	EXPOSURE) (Narcotic effects) - Category 3 EYE IRRITATION - Category 2A
(2-methoxymethylethoxy)propanol	CAS: 34590-94-8	FLAMMABLE LIQUIDS - Category 4
silicon dioxide	CAS: 7631-86-9	Not classified.
tetraethyl silicate	CAS: 78-10-4	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
iron hydroxide oxide yellow	CAS: 51274-00-1	Not classified.
heptan-2-one	CAS: 110-43-0	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 2
ethanol	CAS: 64-17-5	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
Zinc chloride	CAS: 7646-85-7	ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
		AQUATIC HAZARD (ACUTE) - Category 1
	0.00 44000 00 -	AQUATIC HAZARD (LONG-TERM) - Category 1
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A

### Section 12. Ecological information

A. <u>Ecotoxicity</u>

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#### Product name DIMETCOTE 9FD LIQUID

### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
sopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
2-butoxyethanol	Acute LC50 1474 mg/l	Fish	96 hours
-	Chronic NOEC >100 mg/l	Fish	21 days
1-methoxy-2-propanol	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
(2-methoxymethylethoxy)	Acute EC50 1919 mg/l	Daphnia	48 hours
propanol		-	
silicon dioxide	Acute LC50 >10000 mg/l	Fish	96 hours
iron hydroxide oxide yellow	Acute LC50 >100000 mg/l	Fish	96 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Zinc chloride	Acute EC50 5.64 mg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 0.2 mg/l	Crustaceans	48 hours
	Acute LC50 0.4 to 2.2 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
heptan-2-one	OECD 310	69 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
₽-butoxyethanol heptan-2-one ethanol	- -		- - -		Readily Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
sopropyl alcohol	0.05	-	low
2-butoxyethanol	0.81	-	low
1-methoxy-2-propanol	<1	-	low
(2-methoxymethylethoxy) propanol	0.004	-	low
tetraethyl silicate	3.18	-	low
heptan-2-one	2.26	-	low
ethanol	-0.35	-	low

#### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

- E. Other adverse effects
- : No known significant effects or critical hazards.

### Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions
   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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	UN	IMDG	IATA
A. UN number	UN1263	UN1263	UN1263
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	3	3	3
D. Packing group	II	II	II
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

- UN: None identified.IMDG: None identified.
- IATA : None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

Product code 00381740

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# Section 15. Regulatory information

Α.	Regulation according to ISHA						
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.					
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.					
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.					
	Exposure Limits of Chemical Substances and Physical Factors						
	The following components Sopropyl alcohol Kaolin Mica-group minerals 2-butoxyethanol 1-methoxy-2-propanol (2-methoxymethylethoxy)p tetraethyl silicate iron hydroxide oxide yellow heptan-2-one ethanol Zinc chloride crystalline silica, respirable	ropanol /					
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	: None of the components are listed.					
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	<ul> <li>The following components are listed: isopropyl alcohol, silicates, mica, 2-butoxyethanol / EGBE, silica, iron oxide, methyl n-amyl ketone</li> </ul>					
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Isopropyl alcohol, mica, 2-Butoxyethanol, Iron oxide (dust, fume), Methyl n-amyl ketone					
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	: The following components are listed: isopropyl alcohol, mica, 2-butoxyethanol, iron and its compounds, methyl n-amyl ketone					
В.	Regulation according to C	Regulation according to Chemicals Control Act					
	CCA Article 11 (TRI)	: The following components are listed: 2-Propanol					
	Article 18 Prohibited (K- Reach Article 27)	: None of the components are listed.					

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	Article 10 Subject to		Nena of the components are listed	
	Article 19 Subject to authorization (K-Reach Article 25)	•	None of the components are listed.	
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.	
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable	
	Korea inventory	:	All components are listed or exempted.	
	CCA Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.	
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 2. Class 1 petroleums - Water-insoluble liquid Threshold: 200 L Danger category: II Signal word: Contact with sources of ignition prohibited	
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Ε.	Regulation according to	o other foreign laws		
	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

Α.	References	: Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice
		Registry of Toxic Effects of Chemical Substances (RTECS)
		U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.
В.	Date of issue/Date of revision	: 3/4/2022
С.	Version	: 6
	Prepared by	: EHS
D.	Other	

Indicates information that has changed from previously issued version.

#### <u>Disclaimer</u>

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.