SAFETY DATA SHEET



Date of issue 3/3/2025 (month/day/year)

Version 7

Section 1. Chemical product and company identification

A. Product name : DIMETCOTE 9FD LIQUID

Product code : 00381740

B. 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: Product is not intended, labelled or packaged for consumer use.

C. Supplier's or Importer's

information

Email Address

: PPG SSC (680-090)

19, Yeocheon-ro 217beon-gil, Nam-gu,

Ulsan, Korea

Tel: +82-52-210-8222 Korea.MSDS@PPG.COM

Emergency telephone

number:

: **F**82-52-210-8331

Section 2. Hazards identification

A. Hazard classification : \(\overline{\pi}\) 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

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

AQUATIC HAZARD (LONG-TERM) - Category 2

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

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Section 2. Hazards identification

: F225 - Highly flammable liquid and vapor. **Hazard statements**

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: P202 - 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.

P241 - Use explosion-proof electrical, ventilating or lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P240 - Ground and bond container and receiving equipment.

P273 - Avoid release to the environment.

P260 - Do not breathe vapor.

P264 - Wash thoroughly after handling.

Response : P391 - Collect spillage.

P370 + P378 - In case of fire: Never use water to extinguish.

P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water or shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

P321 - Specific treatment (see the label).

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. **Storage**

P403 + P235 - Keep cool.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

not result in classification

C. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

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Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Sopropyl alcohol	ISOPROPYL ALCOHOL	CAS: 67-63-0	20 -
			<30
		EC: 200-661-7	
2-Butoxyethanol, EGBE	2-BUTOXY ETHANOL	CAS: 111-76-2	10 -<20
		EC: 203-905-0	
Propylene glycolmonomethyl ether	PROPYLENE GLYCOL MONOMETHYL ETHER	CAS: 107-98-2	5 - <10
		EC: 203-539-1	
Silicic acid, ethyl ester	ETHYL SILICATE POLYMER	CAS: 11099-06-2	5 - <10
		EC: 234-324-0	
(2-methoxymethylethoxy)propanol	(2-methoxymethylethoxy)propanol	CAS: 34590-94-8	1 - <5
		EC: 252-104-2	
SILICON DIOXIDE	SILICA	CAS: 7631-86-9	1 - <5
		EC: 231-545-4	
Ethyl silicate	Tetraethyl Silicate	CAS: 78-10-4	1 - <5
	-	EC: 201-083-8	
Methyl n-amylketone	HEPTAN-2-ONE	CAS: 110-43-0	1 - <5
		EC: 203-767-1	
Ethanol	ETHYL ALCOHOL	CAS: 64-17-5	1 - <5
		EC: 200-578-6	
FELDSPAR	FELDSPAR	CAS: 68476-25-5	0.1 - <1
		EC: 270-666-7	
zinc chloride	ZINC CHLORIDE	CAS: 7646-85-7	0.1 - <1
		EC: 231-592-0	
crystalline silica, respirable powder (<10 microns)	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
		EC: 238-878-4	

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.

Specific treatments

S	ection 4. First aid	l	measures
A.	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.
E.	Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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: No specific treatment.

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Section 4. First aid measures

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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

A. Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

B. 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 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: 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.

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, protective equipment and emergency procedures

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 vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

B. Environmental precautions

: Kvoid 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.

C. Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

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 non-combustible, 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 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 vapor or mist. Do not ingest. 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.
- B. 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.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
sopropyl alcohol	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 400 ppm.
	TWA 8 hours: 200 ppm.
2-Butoxyethanol, EGBE	ISHA Article 42 (Republic of Korea,
·	1/2020) Absorbed through skin.
	TWA 8 hours: 20 ppm.
Propylene glycolmonomethyl ether	ISHA Article 42 (Republic of Korea,
,	1/2020)
	STEL 15 minutes: 150 ppm.

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Ethanol

zinc chloride

Section 8. Exposure controls/personal protection

TWA 8 hours: 100 ppm.

ISHA Article 42 (Republic of Korea, (2-methoxymethylethoxy)propanol 1/2020) [Dipropylene glycol methyl ether]

> Absorbed through skin. STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.

Ethyl silicate ISHA Article 42 (Republic of Korea,

1/2020)

TWA 8 hours: 10 ppm. Methyl n-amylketone

ISHA Article 42 (Republic of Korea,

TWA 8 hours: 50 ppm.

ISHA Article 42 (Republic of Korea,

1/2020)

TWA 8 hours: 1000 ppm.

ISHA Article 42 (Republic of Korea,

1/2020)

STEL 15 minutes: 2 mg/m³. Form: Fume. TWA 8 hours: 1 mg/m³. Form: Fume. ISHA Article 42 (Republic of Korea,

1/2020)

TWA 8 hours: 0.05 mg/m³. Form:

Respirable fraction.

Recommended monitoring procedures

crystalline silica, respirable powder (<10 microns)

: 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.

B. Appropriate engineering controls

: Use only with adequate ventilation. 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.

C. Personal protective equipment

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 Hand protection : Chemical splash goggles.

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

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Section 8. Exposure controls/personal protection

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.

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.

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 : Liquid.

Color : Colorless.

B. Odor : Characteris

B. Odor : Characteristic.C. Odor threshold : Not available.

D. pH : Not applicable.

E. Melting/freezing point : Not available.

F. Boiling point/boiling range

range

: >37.78°C (>100°F)

G. Flash point : Closed cup: 11°C (51.8°F)

H. Evaporation rate : Not available.

I. Flammability (solid, gas) : Not available.

J. Lower and upper explosive (flammable)

limits

: Not available.

K. Vapor pressure

Vapor Pressure at 20°C Vapor pressure at 50°C

Ingredient name mm Hg kPa Method mm kPa Method Hg

ethanol 42.94865 5.7

L. Solubility(ies)

Media Result

old water Not soluble

Solubility in water : Not available.

Vapor density : Not available.

Relative density : 1.09

Partition coefficient: n- : N

O. octanol/water

: Not applicable.

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Section 9. Physical and chemical properties

P. Auto-ignition temperature

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

Q. Decomposition temperature

: Not available.

_ Viscosity

S.

Flow time (ISO 2431) : Not available.

Molecular weight : Not applicable.

Section 10. Stability and reactivity

A. Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

B. 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

A. Information on the likely routes of exposure

: Not available.

Potential acute health effects

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.

Over-exposure signs/symptoms

Inhalation : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Ingestion: No specific data.

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Section 11. Toxicological information

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

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
2-Butoxyethanol, EGBE	LC50 Inhalation Vapor	Rat	3 mg/l	4 hours
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Propylene glycolmonomethyl ether	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	-
SILICON DIOXIDE	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
Ethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
	LD50 Oral	Rat	6270 mg/kg	-
Methyl n-amylketone	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 ³	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
Z-Butoxyethanol, EGBE	Eyes - Irritant Skin - Moderate irritant	Rabbit Rabbit		24 hours 4 hours	21 days 28 days

Conclusion/Summary

Skin : There are no data available on the mixture itself.
 Eyes : There are no data available on the mixture itself.
 Respiratory : There are no data available on the mixture itself.

Sensitization

Conclusion/Summary

Skin: There are no data available on the mixture itself.

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Section 11. Toxicological information

Respiratory: There are no data available on the mixture itself.

Mutagenicity

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

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
Propylene glycolmonomethyl ether Ethyl silicate	Category 3 Category 3 Category 3	-	Narcotic effects Narcotic effects Respiratory tract irritation
Ethanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Classification	Route of exposure	Target organs
SILICON DIOXIDE	Category 1	-	-
Ethanol	Category 2	-	-
FELDSPAR	Category 2	-	-

Aspiration hazard

Name	Result
Sopropyl alcohol	ASPIRATION HAZARD - Category 2

Potential chronic health effects

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

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

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.

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.

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Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
sopropyl alcohol	CAS: 67-63-0 EC: 200-661-7	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-Butoxyethanol, EGBE	CAS: 111-76-2 EC: 203-905-0	ASPIRATION HAZARD - Category 2 FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Propylene glycolmonomethyl ether	CAS: 107-98-2 EC: 203-539-1	CARCINOGENICITY - Category 2 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Silicic acid, ethyl ester	CAS: 11099-06-2 EC: 234-324-0	EXPOSURE) (Narcotic effects) - Category 3 EYE IRRITATION - Category 2A
(2-methoxymethylethoxy)propanol	CAS: 34590-94-8 EC: 252-104-2	FLAMMABLE LIQUIDS - Category 4
SILICON DIOXIDE	CAS: 7631-86-9	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
Ethyl silicate	EC: 231-545-4 CAS: 78-10-4 EC: 201-083-8	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Methyl n-amylketone	CAS: 110-43-0 EC: 203-767-1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2
Ethanol	CAS: 64-17-5 EC: 200-578-6	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
FELDSPAR	CAS: 68476-25-5 EC: 270-666-7	CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
zinc chloride	CAS: 7646-85-7 EC: 231-592-0	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
,	EC: 238-878-4	

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Section 12. Ecological information

A. **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
sopropyl alcohol	Acute EC50 10.1 g/L Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
2-Butoxyethanol, EGBE	Acute LC50 1474 mg/l	Fish	96 hours
	Chronic NOEC >100 mg/l	Fish	21 days
Propylene	Acute LC50 23300 mg/l	Daphnia	48 hours
glycolmonomethyl ether			
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
SILICON DIOXIDE	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 >10000 mg/l	Fish	96 hours
	Chronic NOEC 12.5 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	
Methyl n-amylketone	Acute LC50 131 mg/l	Fish	96 hours
Ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
zinc chloride	Acute EC50 22 µg/l Fresh water	Algae - <i>Raphidocelis</i>	72 hours
		subcapitata - Exponential	
		growth phase	
	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 0.14 mg/l Fresh water	Daphnia - <i>Daphnia galeata</i> -	48 hours
		Neonate	
	Acute LC50 0.4 to 2.2 mg/l	Fish	96 hours
	Chronic EC10 10 µg/l Fresh water	Algae - Raphidocelis	72 hours
		subcapitata - Exponential	
		growth phase	
	Chronic EC10 58 µg/l Fresh water	Daphnia - Daphnia magna -	21 days
		Juvenile (Fledgling, Hatchling,	
		Weanling)	

B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Methyl n-amylketone	OECD 310	69 % - Readily - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability	
Z-Butoxyethanol, EGBE Methyl n-amylketone Ethanol	- - -		- - -		Readily Readily Readily	

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
sopropyl alcohol	0.05	-	Low
2-Butoxyethanol, EGBE	0.81	-	Low
Propylene	<1	-	Low
glycolmonomethyl ether			
(2-methoxymethylethoxy) propanol	0.004	-	Low
Ethyl silicate	3.18	-	Low
Methyl n-amylketone	2.26	-	Low
Ethanol	-0.35	-	Low

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Section 12. Ecological information

D. Mobility in soil

Soil/Water partition coefficient

E. Other adverse effects

Product code 00381740

: Not available.

: 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-recvclable 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	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine pollutant substances	Not applicable.	zinc chloride)	Not applicable.

Additional information

UN : None identified.

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

: The environmentally hazardous substance mark may appear if required by other transportation **IATA**

regulations.

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Section 14. Transport information

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

Section 15. Regulatory information

A. 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 have an OEL:

ISHA Enforcement Regs : None of the components are listed.

Annex 19 (Exposure standards established for harmful factors)

Trong of the compensation are noted.

ISHA Enforcement Regs Annex 11-5 (Harmful

factors subject to Work
Environment

Measurement)
ISHA Enforcement Regs
Annex 22 (Harmful

: The following components are listed: isopropyl alcohol, silicates, mica, 2-butoxyethanol / EGBE, silica, iron oxide, methyl n-amyl ketone

ISHA Enforcement Reg Annex 22 (Harmful Factors Subject to Special Health Checkup) : 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

B. Regulation according to Chemicals Control Act

Article 11 (TRI) : The following components are listed: 2-Propanol

Article 18 Prohibited (K-Reach Article 27)

: None of the components are listed.

Article 19 Subject to : None authorization (K-Reach

: None of the components are listed.

Article 25)

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Section 15. Regulatory information

Reach Article 27)

Article 20 Restricted (K- : None of the components are listed.

Article 20 Toxic Chemicals (K-Reach

: Not applicable

Article 20)

Korea inventory

: All components are listed or exempted.

Article 39 (Accident Precaution Chemicals) : 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.

E. Regulation according to 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

A. 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.

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: 7

Prepared by : EHS

E. Other

✓ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or quarantee 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.

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