## **SAFETY DATA SHEET**



Date of issue/Date of revision19 August 2023Version 15

Section 1. Identification	
Product name	: DIMETCOTE 9H LIQUID
Product code	: DI9H-A
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of t	the substance or mixture and uses advised against
Product use	: Consumer applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A</li> <li>Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.3%</li> </ul>
GHS label elements	(oral), 55.4% (dermal), 10.3% (inhalation)
Hazard pictograms	
Signal word	: Danger
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Product name DIMETCOTE 9H LIQUID

## Section 2. Hazards identification

Hazard statements	<ul> <li>Highly flammable liquid and vapor. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause cancer.</li> </ul>
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid breathing vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF 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 advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. 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. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture	
Product name	

#### : Mixture

: DIMETCOTE 9H LIQUID

Ingredient name	%	CAS number
Silicic acid, ethyl ester	≥20 - ≤50	11099-06-2
Isopropyl alcohol	≥10 - ≤16	67-63-0
tetraethyl silicate	≥10 - <20	78-10-4
3-butoxypropan-2-ol	≥5.0 - ≤10	5131-66-8
Kaolin	≥5.0 - ≤10	1332-58-7
Mica-group minerals	≥5.0 - ≤10	12001-26-2
trimethoxy(methyl)silane	≥1.0 - ≤5.0	1185-55-3
ethanol	≥1.0 - ≤5.0	64-17-5
n-butyl acetate	≤2.0	123-86-4
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## Section 3. Composition/information on ingredients

Solvent naphtha (petroleum), light aromatic	≤1.6	64742-95-6
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
ethylbenzene	<1.0	100-41-4

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

#### Potential acute health effects

r otentiar adate nearth en	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/syn	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.

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

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## Section 4. First aid measures

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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

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.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

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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).
personnel For emergency responders		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. 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".
For non-emergency	:	No action shall be taken involving any personal risk or without suitable training.

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## Section 6. Accidental release measures

#### 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 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

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 ingest. Avoid breathing vapor or mist. 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.
Special precautions Advice on general occupational hygiene	<ul> <li>Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before</li> </ul>
Conditions for safe storage, including any incompatibilities	<ul> <li>entering eating areas. See also Section 8 for additional information on hygiene measures.</li> <li>Do not store above the following temperature: 50°C (122°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.</li> </ul>
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## Section 7. Handling and storage

Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Sílicic acid, ethyl ester	None.
Isopropyl alcohol	ACGIH TLV (United States, 1/2022).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 980 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.
tetraethyl silicate	ACGIH TLV (United States, 1/2022).
	TWA: 85 mg/m <sup>3</sup> 8 hours.
	TWA: 10 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: $850 \text{ mg/m}^3 8 \text{ hours.}$
	TWA: 100 ppm 8 hours.
3-butoxypropan-2-ol	IPEL (-).
	TWA: 50 ppm
Kaolin	ACGIH TLV (United States, 1/2022).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Mica-group minerals	ACGIH TLV (United States, 1/2022).
	TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 20 mppcf 8 hours.
trimethoxy(methyl)silane	None.
ethanol	ACGIH TLV (United States, 1/2022).
	STEL: 1000 ppm 15 minutes.
	OSHA PEL (United States, 5/2018).
	TWA: 1900 mg/m <sup>3</sup> 8 hours.
	TWA: 1000 ppm 8 hours.
n-butyl acetate	OSHA PEL (United States, 5/2018).
	TWA: 710 mg/m³ 8 hours.
	TWA: 150 ppm 8 hours.
	ACGIH TLV (United States, 1/2022). [Butyl
	acetates all isomers]
	STEL: 150 ppm 15 minutes.
	TWA: 50 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2022). [Silica,
,,,,,,	crystalline]
	TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form:
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## Section 8. Exposure controls/personal protection

· · · ·	
	Respirable
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 10 mg/m <sup>3</sup> / (%SiO2+2) 8 hours. Form:
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 5/2018). [Silica,
	crystalline]
	TWA: 50 µg/m <sup>3</sup> 8 hours. Form: Respirable
	dust
ethylbenzene	ACGIH TLV (United States, 1/2022).
•	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
Key to abbreviation:	S
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Coiling Limit	CC = Clvin constituation

С	= Ceiling Limit	SS = S	kin sensitization
F	= Fume	STEL = S	hort term Exposure limit values
IPEL	<ul> <li>Internal Permissible Exposure Limit</li> </ul>	TD = T	otal dust
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV = T	hreshold Limit Value
R	= Respirable	TWA = T	ime Weighted Average
-			

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. 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 measur	<u>es</u>	
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Chemical splash goggles.
Skin protection		

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## Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

#### Appearance

Color : N	.iquid. Not available. Characteristic.				
Odor · C	Characteristic.				
Odor threshold : N	lot available.				
pH : N	lot applicable.				
Melting point : N	lot available.				
Boiling point : >	•37.78°C (>100°F)				
Flash point : C	Closed cup: 12.78°C (55°F)				
Auto-ignition temperature : N	lot available.				
Decomposition temperature : N	: Not available.				
Flammability : N	lot available.				
Lower and upper explosive : N (flammable) limits	lot available.				
Evaporation rate : 2	2.09 (butyl acetate = 1)				
Vapor pressure : 4	l.1 kPa (30.4 mm Hg)				
Vapor density : N	lot available.				
Relative density : 1	.11				
Density ( lbs / gal ) : 9	9.26				
	Media F	Result			
Solubility(ies) :	old water	Not soluble			

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## Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 60% (v/v), 45.638% (w/w)
% Solid. (w/w)	: 54.362

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sílicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
Isopropyl 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	-
tetraethyl 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	-
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-
	LD50 Oral	Rat	2.2 g/kg	-
Kaolin	LC50 Inhalation Dusts and mists	Rat	>5.07 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
trimethoxy(methyl)silane	LC50 Inhalation Vapor	Rat	>42.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>9500 mg/kg	-
	LD50 Oral	Rat	11685 mg/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	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
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## Section 11. Toxicological information

Section 11. Toxico	logical	IIIIOI	mation					
Solvent paphtha (petroloum)	LD50 Derr LD50 Oral LD50 Derr	l		Rabbit Rat Rabbit	>17600 mg/kg 10.768 g/kg	-		
Solvent naphtha (petroleum), light aromatic				Rappit	3.48 g/kg	-		
ethylbenzene		LD50 Oral LC50 Inhalation Va		Rat Rat Rabbit	8400 mg/kg 17.8 mg/l 17.8 g/kg	- 4 hours -		
	LD50 Oral			Rat	3.5 g/kg	-		
Conclusion/Summary	: There ar	There are no data available on the mixture itself.						
Irritation/Corrosion								
Conclusion/Summary								
Skin	: There are	e no data	a available on tl	ne mixture itself.				
Eyes	: There are	e no data	a available on tl	ne mixture itself.				
Respiratory	: There are	e no data	a available on tl	ne mixture itself.				
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	1	Species		Result			
trimethoxy(methyl)silane	skin		Guinea pig	Guinea pig		Sensitizing		
Conclusion/Summary								
Skin	: There are	e no data	a available on tl	ne mixture itself.				
Respiratory	: There ar	e no data	a available on tl	ne mixture itself.				
<u>Mutagenicity</u>								
<b>Conclusion/Summary</b>	: There ar	e no data	a available on tl	ne mixture itself.				
Carcinogenicity								
<b>Conclusion/Summary</b>	: There ar	e no data	a available on tl	ne mixture itself.				
<b>Classification</b>								
Product/ingredient name	OSHA	IARC	NTP					
Sopropyl alcohol crystalline silica, respirable powder (<10 microns)	crystalline silica, respirable - 1 Known to be a human carcinogen.							
ethylbenzene	-	2B	2B -					
Carcinogen Classification	code:							
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	a human caro	cinogen; R	teasonably anticip	ated to be a human	carcinogen			
Reproductive toxicity								
	: There are	e no data	available on th	e mixture itself.				
Teratogenicity								
Conclusion/Summary	: There are	e no data	available on th	e mixture itself.				
Specific target organ toxicity	<u>(single exr</u>	<u>posure)</u>						

Product name DIMETCOTE 9H LIQUID

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Isopropyl alcohol tetraethyl silicate	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
n-butyl acetate Solvent naphtha (petroleum), light aromatic	Category 3 Category 3	-	Narcotic effects Narcotic effects

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

Name		Route of exposure	Target organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
ethylbenzene	Category 2	-	hearing organs

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, spleen, upper respiratory tract, skin, eye, lens or cornea, stomach, thyroid.

#### Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympton	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
•	ts and also chronic effects from short and long term exposure

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## Section 11. Toxicological information

Conclusion/Summary	:	There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate effects	;	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	ct	S
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.
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#### Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
METCOTE 9H LIQUID	23958.1	13639.2	N/A	98.3	N/A
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
tetraethyl silicate	6270	5878	N/A	11	N/A
3-butoxypropan-2-ol	2200	3100	N/A	N/A	N/A
trimethoxy(methyl)silane	11685	N/A	N/A	N/A	N/A
ethanol	7000	17100	N/A	124.7	N/A
n-butyl acetate	10768	N/A	N/A	N/A	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
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# Product code DIPH-A Date of issue 19 August 2023 Version 15 Product name DIMETCOTE 9H LIQUID Section 11. Toxicological information Image: Section 12 and the section 13 and the section 14 an

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
sopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
trimethoxy(methyl)silane	Acute LC50 >110 mg/l	Fish	96 hours
ethanol	Acute EC50 7640 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Solvent naphtha (petroleum),	Acute LC50 8.2 mg/l	Fish	96 hours
light aromatic	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
ethylbenzene	Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	-

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
-butyl acetate	TEPA and OECD 301D	83 % - Rea	dily - 28 days	-		-
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
ethanol n-butyl acetate ethylbenzene	- -		- - -		Readily Readily Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
sopropyl alcohol	0.05	-	Low
tetraethyl silicate	3.18	-	Low
3-butoxypropan-2-ol	1.2	-	Low
ethanol	-0.35	-	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Product name DIMETCOTE 9H LIQUID

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	II	II	II	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	33521.7	Not applicable.	Not applicable.	
RQ substances	(xylene)	Not applicable.	Not applicable.	

**Additional information** 

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

IATA : None identified.

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

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## Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b) : All components are active or exempted.

#### U.S. Federal regulations

#### United States - TSCA 5(a)2 - Final significant new use rules:

mercury

SARA 302/304

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

#### SARA 311/312

Classification

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
Silicic acid, ethyl ester	≥20 - ≤50	EYE IRRITATION - Category 2A
Isopropyl alcohol	≥10 - ≤16	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
tetraethyl silicate	≥10 - <20	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
3-butoxypropan-2-ol	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
trimethoxy(methyl)silane	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		SKIN SENSITIZATION - Category 1B
ethanol	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
	10.0	HNOC - Defatting irritant
n-butyl acetate	≤2.0	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
Solvent periods (netroleum)	≤1.6	HNOC - Defatting irritant
Solvent naphtha (petroleum), light aromatic	≤1.0	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
	1	<b>3</b> <i>;</i>
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Listed

Product name DIMETCOTE 9H LIQUID

## Section 15. Regulatory information

powder (<10 microns)		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
	I	

#### <u>SARA 313</u>

#### Chemical name

Supplier notification

: ethylbenzene

 CAS number
 Concentration

 100-41-4
 0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

**WARNING**: Cancer - www.P65Warnings.ca.gov.

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health : 2 \* Flammability : 3 Physical hazards : 1 (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

<b>National Fire Protection Ass</b>	ociation (U.S.A.)
Health : 2 Flamma	ibility : 3 Instability : 1
Date of previous issue	: 3/15/2022
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) N/A = Not available SGG = Segregation Group UN = United Nations

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#### Product name DIMETCOTE 9H LIQUID

## Section 16. Other information

#### 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 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.