SAFETY DATA SHEET



Date of issue/Date of revision 4 June 2024 Version 15

Section 1. Identification		
Product name	: HI-TEMP 500VHA SAFETY GREEN	
Product code	: HT5VHA-510	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
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	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: 🗚 AMMABLE LIQUIDS - Category 3
substance or mixture	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 40% (oral), 60.8% (dermal), 46.8% (inhalation)

Product name HI-TEMP 500VHA SAFETY GREEN

Section 2. Hazards identification

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).

	engineering controls (see Section 8).
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Mammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Øbtain 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. Use only outdoors of in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation 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. I eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. 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. 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. This product either contains formaldehyde or is capable of releasing formaldehyde above 0. ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash
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Section 2. Hazards identification

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
- : HI-TEMP 500VHA SAFETY GREEN

Ingredient name	%	CAS number
	≥20 - ≤43	98-56-6
cobalt titanite green spinel	≥10 - ≤20	68186-85-6
Solvent naphtha (petroleum), heavy arom.	≥10 - <20	64742-94-5
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
Mica-group minerals	≥1.0 - ≤5.0	12001-26-2
xylene	≥1.0 - ≤3.3	1330-20-7
naphthalene	≥1.0 - ≤5.0	91-20-3
Cobalt aluminate blue spinel	≥1.0 - ≤5.0	1345-16-0
titanium dioxide	≤1.0	13463-67-7
ethylbenzene	<1.0	100-41-4
toluene	<1.0	108-88-3
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7

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

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

: Causes serious eye irritation.

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Section 4. First aid measures

Inhalation	: May cause respiratory irritation.	
Skin contact	: Zauses skin irritation. Defatting to the skin.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/symp	<u>ptoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Indication of immediate mee	dical attention and special treatment needed, if necessary	
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 	
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 ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.

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Section 5. Fire-fighting measures

Specific hazards arising from the chemical	: 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 halogenated compounds carbonyl halides metal oxide/oxides Formaldehyde.
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, protec	tive equipment and emergency procedures	
For non-emergency personnel For emergency responders	 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. If specialized clothing is required to deal with the spillage, take note of any information in 	
For emergency responders	Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for co	ntainment 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.	

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Section 7. Handling and storage

Precautions for safe handling

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
✓−chloro-α,α,α-trifluorotoluene	IPEL (-).
	TWA: 0.57 ppm
	STEL: 1.71 ppm
cobalt titanite green spinel	ACGIH TLV (United States, 7/2023). [Nickel,
	insoluble inorganic compounds]
	TWA: 0.2 mg/m³, (as Ni) 8 hours. Form:
	Inhalable fraction
	ACGIH TLV (United States, 7/2023). [cobalt
	and inorganic compounds] Skin sensitizer.
	Inhalation sensitizer.
	TWA: 0.02 mg/m³, (as Co) 8 hours. Form:
	Inorganic
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Section 8. Exposure controls/personal protection

	ACGIH TLV (United States).
	TWA: 0.2 mg/m ³ Form: Total dust
	OSHA PEL (United States).
	TWA: 1 mg/m³, (as Ni) Form: Total dust
	TWA: 1 mg/m ³ , (as Ni)
	OSHA PEL (United States, 5/2018). [Nickel,
	metal and insoluble compounds]
	TWA: 1 mg/m³, (as Ni) 8 hours.
Solvent naphtha (petroleum), heavy arom.	None.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 7/2023).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
Mine group minerale	TWA: 2 mg/m ³
Mica-group minerals	ACGIH TLV (United States, 7/2023).
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL Z3 (United States, 6/2016). TWA: 20 mppcf 8 hours.
xulono.	OSHA PEL (United States, 5/2018).
xylene	[Xylenes]
	TWA: 435 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.
	ACGIH TLV (United States, 7/2023). [p-
	• • • •
	xylene and mixtures containing p-xylene] Ototoxicant.
nanhthalana	TWA: 20 ppm 8 hours.
naphthalene	ACGIH TLV (United States, 7/2023).
	Absorbed through skin.
	TWA: 52 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours. OSHA PEL (United States, 5/2018).
	TWA: 50 mg/m ³ 8 hours.
	TWA: 30 mg/m 8 hours.
Cobalt aluminate blue spinel	ACGIH TLV (United States, 7/2023). [cobalt
	and inorganic compounds] Skin sensitizer.
	Inhalation sensitizer.
	TWA: 0.02 mg/m ³ , (as Co) 8 hours.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 7/2023).
	TWA: 2.5 mg/m ³ 8 hours. Form: respirable
	fraction, finescale particles
ethylbenzene	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
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Section 8. Exposure controls/personal protection

	ACGIH TLV (United States, 7/2023).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 7/2023). [Silica,
	crystalline]
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 10 mg/m ³ / (%SiO ₂ +2) 8 hours. Form:
	Respirable
	TWA: 250 mppcf / (%SiO ₂ +5) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 5/2018). [Silica,
	crystalline]
	TWA: 50 µg/m ³ 8 hours. Form: Respirable
	dust
Kev to abbrev	viations

А	= Acceptable Maximum Peak	S	 Potential skin absorption
ACGIH	 American Conference of Governmental Industrial Hygienists. 	SR	 Respiratory sensitization
С	= Ceiling Limit	SS	 Skin sensitization
F	= Fume	STEL	 Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	 Occupational Safety and Health Administration. 	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time 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 measure	<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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection Skin protection	:	Chemical splash goggles.

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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	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: polyvinyl alcohol (PVA), Viton® Not recommended: 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.
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

<u>Appearance</u>		
Physical state	: Liquid.	
Color	Green.	
Odor	Characteristic.	
Odor threshold	Not available.	
рН	Not applicable.	
Melting point	Not available.	
Boiling point	: >37.78°C (>100°F)	
Flash point	Closed cup: 27°C (80.6°F)	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Flammability	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Evaporation rate	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	: 1.48	
Density (lbs / gal)	: 12.35	

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Section 9. Physical and chemical properties

	Media	Result
Solubility(ies)	cold water	Not soluble
Partition coefficient: n- octanol/water	: Not applicable.	
Viscosity	: Kinematic (40°C (104	°F)): >21 mm²/s (>21 cSt)
Volatility	: 62% (v/v), 46.633% (v	n/w)
% Solid. (w/w)	: 53.367	

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 halogenated compounds Formaldehyde. carbonyl halides metal oxide/ oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4 -chloro- α , α , α -trifluorotoluene	LC50 Inhalation Vapor	Rat	33080 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>2.7 g/kg	-
	LD50 Oral	Rat	13 g/kg	-
Solvent naphtha (petroleum),	LC50 Inhalation Dusts and mists	Rat	>5.2 mg/l	4 hours
heavy arom.			-	
-	LD50 Oral	Rat	>5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
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Section 11. Toxicological information

Skin - Moderate irritant Rabbit - 24 hours 500 mg - 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 - - - - - - - Skin : There are no data available on the mixture itself. -	rritation/Corrosion Product/ingredient name Kylene Conclusion/Summary Skin	Result			the mixtu	re itself.			
Kylene Skin - Moderate irritant Rabbit - 24 hours 500 mg - Conclusion/Summary Skin : There are no data available on the mixture itself. - 24 hours 500 - Skin : There are no data available on the mixture itself. - 24 hours 500 - Skin : There are no data available on the mixture itself. -	Kylene Conclusion/Summary Skin			Sn					
Conclusion/Summary mg 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. Respiratory : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity Conclusion/Summary Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary Conclusion/Summary : There are no data available on the mixture itself. Classification - Product/ingredient name OSHA IARC Velne - 2B - naphthalene - 2B - Cobalt atuminate blue spinel - 2B Reasonably anticipated to be a human carcinogen. - 2B Reasonably anticipated to be a human carcinogen. - - 2B	<u>Conclusion/Summary</u> Skin :	Skin - Mod		op	ecies	Score		Exposure	Observation
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Respiratory : There are no data available on the mixture itself. Sensitization : Conclusion/Summary Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself. Mutagenicity : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity : There are no data available on the mixture itself. Conclusion/Summary : There are no data available on the mixture itself. Classification : There are no data available on the mixture itself. Product/ingredient name OSHA IARC NTP # Cohloro-q,q,q,-trifluorotoluene cobalt titanite green spinel xylene : 2B - Inaphthalene : 2B - : Cobalt aluminate blue spinel : 2B Reasonably anticipated to be a human carcinogen. : 2B : 2B : : <th: 2b<="" th=""> : :</th:>	Eves	There are	e no data av	vailable on	the mixtu	re itself.			
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. Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Carcinogenicity Conclusion/Summary : There are no data available on the mixture itself. Classification Product/ingredient name OSHA IARC NTP #-cholro-α,α,α-trifluorotoluene - 2B - cobalt titanite green spinel - 2B - naphthalene - 2B Reasonably anticipated to be a human carcinogen. Cobalt aluminate blue spinel - 2B - titanium dioxide - 2B - ethylbenzene - 2B - toluene - 3 - crystalline	-,	There are	e no data av	vailable on	the mixtu	re itself.			
Conclusion/Summary Skin:There are no data available on the mixture itself.Respiratory:There are no data available on the mixture itself.Mutagenicity:There are no data available on the mixture itself.Conclusion/Summary:There are no data available on the mixture itself.Carcinogenicity:There are no data available on the mixture itself.Carcinogenicity:There are no data available on the mixture itself.Conclusion/Summary::Conclusion/Summary:There are no data available on the mixture itself.Classification::Product/ingredient nameOSHAIARCVerhoro- α, α, α -trifluorotoluene::::::Matheme:::<	Respiratory :	There are	e no data av	vailable on	the mixtu	re itself.			
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toluene-3-crystalline silica, respirable+1Known to be a human carcinogen.		-		-					
crystalline silica, respirable + 1 Known to be a human carcinogen.	-								
	crystalline silica, respirable	+		Known to	be a hum	an carcin	iogen.		
	Carcinogen Classification c IARC: 1, 2A, 2B, 3, 4								

Not listed/not regulated: -

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.
0	

Specific target organ toxicity (single exposure)

Product name HI-TEMP 500VHA SAFETY GREEN

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
4-chloro- α , α , α -trifluorotoluene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), heavy arom.	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
toluene	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
cobalt titanite green spinel	Category 2	-	-
naphthalene	Category 2	-	-
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2	-	-
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-

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 nervous system, liver, cardiovascular system, upper respiratory tract, skin, adrenal, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), heavy arom.	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

		United States	Dago: 12/18
	coughing reduced fetal weight increase in fetal deaths skeletal malformations		
Inhalation	watering redness : Adverse symptoms may include the following: respiratory tract irritation		
Eye contact	: Adverse symptoms may include the following: pain or irritation		
Over-exposure signs	<u>/symptoms</u>		
Ingestion	: No known significant effects or critical hazards.		
Skin contact	: 🛿 auses skin irritation. Defatting to the skin.		
Inhalation	: May cause respiratory irritation.		
Eye contact	: Causes serious eye irritation.		

Product name HI-TEMP 500VHA SAFETY GREEN

Section 11. Toxicological information

Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	dryness
	cracking reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in 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
Chart tarm ave acure	contact.
Short term exposure	. There are no data available on the mixture itself
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
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 eff	ects
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.

Product name HI-TEMP 500VHA SAFETY GREEN

Section 11. Toxicological information

- Carcinogenicity Mutagenicity
- : May cause cancer. Risk of cancer depends on duration and level of exposure.
- : No known significant effects or critical hazards.
- Reproductive toxicity : Suspected of
 - : Suspected of damaging fertility or the unborn child.

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)
H-TEMP 500VHA SAFETY GREEN	16990.5	3186.8	N/A	275.0	37.5
4-chloro-α,α,α-trifluorotoluene	13000	2500	N/A	33.08	N/A
xylene	4300	1700	N/A	11	1.5
naphthalene	490	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
toluene	5580	8390	N/A	49	N/A

Section 12. Ecological information

Ι	OX	С	ity	
_				

Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), heavy arom.	NOEL 0.48 mg/l Fresh water	Daphnia	21 days
titanium dioxide ethylbenzene	Acute LC50 >100 mg/l Fresh water Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours 48 hours -

Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
▼ylene ethylbenzene toluene			- - -		Readily Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Solvent naphtha (petroleum), heavy arom.	2.8 to 6.5	-	High
xylene naphthalene ethylbenzene toluene	3.12 3.4 3.6 2.73	7.4 to 18.5 85.11 79.43 8.32	Low Low Low Low

		United States	Page: 14/18
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Product name HI-TEMP 500VHA SAFETY GREEN

Section 12. Ecological information

Mobility in soil Soil/water partition coefficient (Koc)

: Not available.

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	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	111	III	111	
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	Solvent naphtha (petroleum), heavy aromatic)	Not applicable.	
Product RQ (Ibs)	4699	Not applicable.	Not applicable.	
RQ substances	(xylene, naphthalene)	Not applicable.	Not applicable.	

14. Transport information

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

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

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Product name HI-TEMP 500VHA SAFETY GREEN

14. Transport information

ΙΑΤΑ

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

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

Section 15. Regulatory information

United States

United States inventory (TSCA 8b) : At least one component is inactive.

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

4-chloro- α , α , α -trifluorotoluene

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification	: 🗾 AMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
✓−chloro-α,α,α-trifluorotoluene	≥20 - ≤43	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
cobalt titanite green spinel	≥10 - ≤20	EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Solvent naphtha (petroleum),	≥10 - <20	FLAMMABLE LIQUIDS - Category 4
heavy arom.		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
1	1	United States Page: 16/18

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Product name HI-TEMP 500VHA SAFETY GREEN

Section 15. Regulatory information

	-	
Talc , not containing asbestiform	≥5.0 - ≤10	HNOC - Defatting irritant SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
xylene	≥1.0 - ≤3.3	FLAMMABLE LIQUIDS - Category 3
5		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
naphthalene	≥1.0 - ≤5.0	FLAMMABLE SOLIDS - Category 2
		ACUTE TOXICITY (oral) - Category 4
		CARCINOGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
Cobalt aluminate blue spinel	≥1.0 - ≤5.0	EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 1B
titanium dioxide	≤1.0	CARCINOGENICITY - Category 2
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
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2
	1.0	SKIN IRRITATION - Category 2
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1

SARA 313

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: 💋 balt titanite green spinel	68186-85-6	10 - 30
	xylene	1330-20-7	1 - 5
	naphthalene	91-20-3	0.5 - 1.5
	Cobalt aluminate blue spinel	1345-16-0	0.5 - 1.5
	ethylbenzene	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

Version 15

Product name HI-TEMP 500VHA SAFETY GREEN

Section 15. Regulatory information

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Section 16. Other information

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

Health : 2 * Flammability : 3 Physical hazards : 0 (*) - 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.

National Fire Protection Ass	ociation (U.S.A.)			
Health : 2 Flammability : 3 Instability : 0				
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 			

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.