SAFETY DATA SHEET



Date of issue/Date of revision 18 May 2021 Version 8

Section 1. Identification		
Product name	: HI-TEMP 1000 WHITE ALUMINUM	
Product code	: 00424151	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (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 substance or mixture	 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Fercentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 29.5%
	(oral), 56% (dermal), 40.3% (inhalation) This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG 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
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Section 2. Hazards identification

	engineering controls (see Section 8).	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	 Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs) 	
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 or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.	
Response	: F 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 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 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 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.	
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 1000 WHITE ALUMINUM

Ingredient name	%	CAS number
dimethyl carbonate	≥10 - ≤20	616-38-6
Aluminium powder (stabilized)	≥10 - ≤20	7429-90-5
Stoddard solvent	≥5.0 - ≤10	8052-41-3
xylene	≥5.0 - ≤8.8	1330-20-7
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
Mica-group minerals	≥1.0 - ≤5.0	12001-26-2
1-nitropropane	≥1.0 - ≤3.2	108-03-2
zinc oxide	≥1.0 - ≤3.4	1314-13-2
ethylbenzene	≥0.10 - ≤2.7	100-41-4
Solvent naphtha (petroleum), light aromatic	≥0.10 - ≤2.6	64742-95-6
cristobalite (<10 microns)	≥1.0 - ≤5.0	14464-46-1
1,2,4-trimethylbenzene	≤1.1	95-63-6
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 sympto	oms/effects, acute and delayed
Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	symptoms

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Section 4. First aid measures

: Adverse symptoms may include the following: pain or irritation watering redness
: Adverse symptoms may include the following: respiratory tract irritation coughing
: Adverse symptoms may include the following: irritation dryness cracking
: No specific data.
lical attention and special treatment needed, if necessary
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.
: No specific treatment.
: 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.	
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 nitrogen oxides 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.	
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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for co	ont	ainment 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). 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. 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.

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Section 7. Handling and storage

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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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
dimethyl carbonate	None.
aluminium powder (stabilised)	ACGIH TLV (United States, 3/2020).
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³, (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m³, (as Al) 8 hours. Form: Total
	dust
Stoddard solvent	ACGIH TLV (United States, 3/2020).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 2900 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
xylene	ACGIH TLV (United States, 3/2020).
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
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Section 8. Exposure controls/personal protection

	TWA: 435 mg/m ³ 8 hours.
	TWA: 435 mg/m 6 hours.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2020).
	TWA: 10 mg/m ³ 8 hours.
Mica-group minerals	ACGIH TLV (United States, 3/2020).
	TWA: 3 mg/m ³ 8 hours. Form: Respirable
	fraction
	OSHA PEL Z3 (United States, 6/2016).
	TWA: 20 mppcf 8 hours.
1-nitropropane	ACGIH TLV (United States, 3/2020).
	TWA: 91 mg/m³ 8 hours.
	TWA: 25 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 90 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
zinc oxide	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m ³ 8 hours. Form: Fume
	TWA: 5 mg/m ³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2020).
	STEL: 10 mg/m ³ 15 minutes. Form:
	Respirable fraction
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	fraction
athulhanzana	
ethylbenzene	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
cristobalite (<10 microns)	OSHA PEL Z3 (United States, 6/2016).
	TWA: 250 mppcf / 2 x (%SiO2+5) 8 hours.
	Form: Respirable
	TWA: 10 mg/m³ / 2 x (%SiO2+2) 8 hours.
	Form: Respirable
	TWA: 30 mg/m³ / 2 x (%SiO2+2) 8 hours.
	Form: Total dust
	OSHA PEL (United States, 5/2018).
	TWA: 50 µg/m³ 8 hours. Form: Respirable
	dust
	ACGIH TLV (United States, 3/2020).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable fraction
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2020).
	TWA: 123 mg/m ³ 8 hours.
	TWA: 25 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 3/2020).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable

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Section 8. Exposure controls/personal protection

OSHA PEL Z3 (United States, 6/2016).
TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
Respirable
TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
Respirable
OSHA PEL (United States, 5/2018).
TWA: 50 µg/m³ 8 hours. Form: Respirable
dust
 Key to abbreviations

= Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization = Ceiling Limit SS = Skin sensitization = Short term Exposure limit values = Fume STEL IPEL = Internal Permissible Exposure Limit TD = Total dust OSHA = Occupational Safety and Health Administration. TLV = Threshold Limit Value = Respirable TWA = Time Weighted Average

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

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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	:	Chemical splash goggles.
Skin 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.

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Section 8. Exposure controls/personal protection

Gloves	: For prolonged or repeated handling, use the following type of gloves:
	May be used: nitrile rubber
	Recommended: butyl rubber, polyvinyl alcohol (PVA), Viton®
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	1	Silver-white.
Odor	1	Characteristic.
Odor threshold	:	Not available.
рН	1	Not applicable.
Melting point	1	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	:	Closed cup: -20°C (-4°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Evaporation rate	:	Not available.
Vapor pressure	:	Not available.
Vapor density	1	Not available.
Relative density	:	1.28
Density(lbs / gal)	:	10.68
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	-	Not applicable.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	:	60% (v/v), 43.5% (w/w)

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Section 9. Physical and chemical properties

% Solid. (w/w)

: 56.5

Section	10.	Stability	and	reactivity
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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 nitrogen oxides Formaldehyde. metal oxide/oxides

Section 11. Toxicological information

Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
dimethyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
aluminium powder (stabilised)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	>15900 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
1-nitropropane	LD50 Oral	Rat	0.455 g/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Dermal	Rat	>2000 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	-
	LD50 Oral	Rat	3.5 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-

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Section 11. Toxicological information

Conclusion/Summary	

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation
xylene	Skin - Moo	lerate irritan	t Rabbit	-	24 hours 500 mg) -
Conclusion/Summary						
Skin	: There are	e no data av	ailable on the mixtu	ire itself.		
Eyes	: There are	e no data av	/ailable on the mixtu	ire itself.		
Respiratory	: There are	e no data av	ailable on the mixtu	ire itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data av	/ailable on the mixtu	ire itself.		
Respiratory	: There are	e no data av	ailable on the mixtu	ire itself.		
<u>lutagenicity</u>						
Conclusion/Summary	: There are	e no data av	ailable on the mixtu	ıre itself.		
arcinogenicity						
Conclusion/Summary	: There are	e no data av	/ailable on the mixtu	ure itself.		
<u>Classification</u>						
Product/ingredient name	OSHA	IARC	NTP			
x ylene	-	3	-			
titanium dioxide	-	2B	-			
ethylbenzene	-	2B	-			
cristobalite (<10 microns)	-	1	Known to be a hum	•		
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a hum	ian carcinoge	en.	
Carcinogen Classification	code:					
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	a human caro	cinogen; Reas	onably anticipated to b	e a human carc	cinogen	
eproductive toxicity						
Conclusion/Summary	: There are	e no data av	ailable on the mixtu	re itself.		
eratogenicity						
Conclusion/Summary	: There are	e no data av	ailable on the mixtu	re itself.		
pecific target organ toxicity	(single exp	<u>oosure)</u>				
lamo			Category	Pout	o of Ta	raat organs

Name	Category	Route of exposure	Target organs
dimethyl carbonate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
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Section 11. Toxicological information

1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)			

Name Category **Route of** Target organs exposure Stoddard solvent Category 1 _ central nervous system (CNS) ethylbenzene Category 2 hearing organs cristobalite (<10 microns) Category 1 inhalation crystalline silica, respirable powder (<10 microns) Category 1 inhalation

Target organs

: Contains material which causes damage to the following organs: blood, brain, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, digestive system, upper respiratory tract, immune system, skin, ears, testes.

Aspiration hazard

Name	Result
Stoddard solvent	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Potential acute health effects

Inhalation Skin contact	 Causes serious eye irritation. May cause respiratory irritation. Defatting to the skin. May cause skin dryness and irritation. No known significant effects or critical hazards.
	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Delayed and immediate effects	s 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. 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 PPG 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 contact.
<u>Short 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.
<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	<u>ects</u>
General	: Causes 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.
Numerical measures of toxic	<u>sity</u>
Acute toxicity estimates	

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
H-TEMP 1000 WHITE ALUMINUM	7954.7	2743.5	N/A	48.7	6.1
dimethyl carbonate	12900	2500	N/A	140	N/A
xylene	4300	1700	N/A	11	1.5
1-nitropropane	455	1100	N/A	11	1.5
zinc oxide	N/A	2500	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5

Section 12. Ecological information

<u>Toxicity</u>					
Product/ingredient name	Result	Species	Exposure		
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours		
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours		
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours		
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours		
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours		
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours		
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours		

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene ethylbenzene	-	-	Readily Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dímethyl carbonate	0.354	-	low
Stoddard solvent	3.16 to 7.06	-	high
xylene	3.12	7.4 to 18.5	low
1-nitropropane	0.79	-	low
ethylbenzene	3.6	79.43	low
1,2,4-trimethylbenzene	3.63	120.23	low

Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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Product code 00424151 Product name HI-TEMP 1000 WHITE ALUMINUM

Section 12. Ecological information

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	П	11	
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	
Marine pollutant substances	Not applicable.	(zinc oxide, Solvent naphtha (petroleum), light aromatic)	Not applicable.	
Product RQ (lbs)	1149.5	Not applicable.	Not applicable.	
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.	

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 \leq 5 L or \leq 5 kg.
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations.

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Product name HI-TEMP 1000 WHITE ALUMINUM

14. Transport information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HNOC - Defatting irritant

Composition/information on ingredients

Name	%	Classification
dímethyl carbonate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
Stoddard solvent	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
		ASPIRATION HAZARD - Category 1
vo de ne		HNOC - Defatting irritant
xylene	≥5.0 - ≤8.8	FLAMMABLE LIQUIDS - Category 3 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
titanium dioxide	≥1.0 - ≤5.0	CARCINOGENICITY - Category 2
1-nitropropane	≥1.0 - ≤3.2	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
		United States Page: 16/18

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Product name HI-TEMP 1000 WHITE ALUMINUM

Section 15. Regulatory information

		ACUTE TOXICITY (inhalation) - Category 4
ethylbenzene	≥0.10 - ≤2.7	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
Solvent naphtha (petroleum),	≥0.10 - ≤2.6	FLAMMABLE LIQUIDS - Category 3
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
cristobalite (<10 microns)	≥1.0 - ≤5.0	CARCINOGENICITY - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
1,2,4-trimethylbenzene	≤1.1	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
		HNOC - Defatting irritant
crystalline silica, respirable	<1.0	CARCINOGENICITY - Category 1A
powder (<10 microns)		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1

<u>SARA 313</u>

	Chemical name	CAS number	Concentration
Supplier notification	: Aluminium powder (stabilized)	7429-90-5	10 - 30
	xylene	1330-20-7	5 - 10
	zinc oxide	1314-13-2	1 - 5
	ethylbenzene	100-41-4	1 - 5
	1,2,4-trimethylbenzene	95-63-6	0.5 - 1.5

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 : 3 * 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.

National Fire Protection Association (U.S.A.)

Health : 3 Flammat Date of previous issue Organization that prepared the SDS	bility : 3 Instability : 1 : 6/13/2020 : 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 = International Air Transport Association IBC = 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.