SAFETY DATA SHEET



Date of issue/Date of revision26 October 2022Version 9

Section 1. Identification		
Product name	: HI-TEMP 1000VHA ALUMINUM	
Product code	: 00387822	
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	
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 substance or mixture	 AMMABLE LIQUIDS - Category 2 SKIN IRRITATION - 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 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 31.8% (oral), 59.6% (dermal), 43.1% (inhalation)
GHS label elements Hazard pictograms	

Product name HI-TEMP 1000VHA ALUMINUM

Section 2. Hazards identification

Signal word	Danger	
Hazard statements	- fighly flamma	ble liquid and vapor.
	May cause res May cause ca Causes dama	is eye irritation. spiratory irritation. ncer. ge to organs through prolonged or repeated exposure. (central nervous
Precautionary statements	system (CNS)	, hearing organs)
Prevention	been read and protection. Ke sources. No s Jse non-sparl n a well-ventil	I instructions before use. Do not handle until all safety precautions have I understood. Wear protective gloves, protective clothing and eye or face eep away from heat, hot surfaces, sparks, open flames and other ignition moking. Use explosion-proof electrical, ventilating or lighting equipment. king tools. Take action to prevent static discharges. Use only outdoors or ated area. Do not breathe vapor. Do not eat, drink or smoke when using Wash thoroughly after handling.
Response	person to fres doctor if you fe clothing. Rinse occurs: Get m several minute	concerned: Get medical advice or attention. IF INHALED: Remove h air and keep comfortable for breathing. Call a POISON CENTER or eel unwell. IF ON SKIN (or hair): Take off immediately all contaminated e skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation edical advice or attention. IF IN EYES: Rinse cautiously with water for es. Remove contact lenses, if present and easy to do. Continue rinsing. If ersists: Get medical advice or attention.
Storage	tore locked ι cool.	p. Store in a well-ventilated place. Keep container tightly closed. Keep
Disposal	Dispose of con nternational re	ntents and container in accordance with all local, regional, national and egulations.
Supplemental label elements	silica which ca duration and la applications. F he respiratory apor/aerosol neadaches, du product either opm under ce sensitizer and horoughly afte WOOL OR W CATCH FIRE	prinding dusts may be harmful if inhaled. This product contains crystalline in cause lung cancer or silicosis. The risk of cancer depends on the evel of exposure to dust from sanding surfaces or mist from spray Repeated exposure to high vapor concentrations may cause irritation of a system and permanent brain and nervous system damage. Inhalation of concentrations above the recommended exposure limits causes rowsiness and nausea and may lead to unconsciousness or death. This contains formaldehyde or is capable of releasing formaldehyde above 0.5 rtain conditions. Formaldehyde is a known cancer hazard, a skin a respiratory sensitizer. Avoid contact with skin and clothing. Wash er handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL ASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, 5, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL
Hazards not otherwise classified		epeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture Product name

: Mixture

: HI-TEMP 1000VHA ALUMINUM

Ingredient name	%	CAS number
dímethyl 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 - ≤10	1330-20-7
Mica-group minerals	≥1.0 - ≤5.0	12001-26-2
1-nitropropane	≥1.0 - ≤3.1	108-03-2
zinc oxide	≥1.0 - ≤3.1	1314-13-2
ethylbenzene	≥0.10 - ≤2.6	100-41-4
Solvent naphtha (petroleum), light aromatic	≥0.10 - ≤2.4	64742-95-6
cristobalite (<10 microns)	≥1.0 - ≤5.0	14464-46-1
1,2,4-trimethylbenzene	≤1.2	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 symptoms/effects, acute and delayed

Potential acute health effectsEye contact: Causes serious eye irritation.Inhalation: May cause respiratory irritation.Skin contact: Causes skin irritation. Defatting to the skin.Ingestion: No known significant effects or critical hazards.Over-exposure signs/symptoms

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Section 4. First aid measures

Eye contact	: 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 redness dryness cracking
Ingestion	: No specific data.

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

Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed.
Specific treatments	The exposed person may need to be kept under medical surveillance for 48 hours. 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

For the second schedule second schedule	
<u>Extinguishing media</u>	
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	: Fighly 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 halogenated compounds 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.

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Section 5. Fire-fighting measures

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	: 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	entainment 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	

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.

information and Section 13 for waste disposal.

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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, 1/2021).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m³ 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, 1/2021).
	TWA: 525 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 2900 mg/m³ 8 hours.
	TWA: 500 ppm 8 hours.
xylene	ACGIH TLV (United States, 1/2021). [Xylene]
	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m³ 8 hours.
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Section 8. Exposure controls/personal protection

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crystalline silica, respirable powder (<10 microns)	ACGIH TLV (United States, 1/2021). [Silica,
	TWA: 25 ppm 8 hours.
	[Trimethyl benzene (mixed isomers)] TWA: 123 mg/m ³ 8 hours.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 1/2021).
	Respirable fraction
	TWA: 0.025 mg/m ³ 8 hours. Form:
	crystalline]
	ACGIH TLV (United States, 1/2021). [Silica,
	dust
	TWA: 50 µg/m ³ 8 hours. Form: Respirable
	OSHA PEL (United States, 5/2018). [Silica, crystalline]
	Form: Total dust
	TWA: 30 mg/m³ / 2 x (%SiO2+2) 8 hours.
	Form: Respirable
	TWA: 10 mg/m³ / 2 x (%SiO2+2) 8 hours.
	Form: Respirable
	TWA: 250 mppcf / 2 x (%SiO2+5) 8 hours.
cristobalite (<10 microns)	OSHA PEL Z3 (United States, 6/2016).
Solvent naphtha (petroleum), light aromatic	None.
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 20 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 1/2021).
	fraction
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
	Respirable fraction
	STEL: 10 mg/m ³ 15 minutes. Form:
	ACGIH TLV (United States, 1/2021).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	fraction
	TWA: 5 mg/m ² 8 hours. Form: Respirable
	TWA: 5 mg/m ³ 8 hours. Form: Fume
zinc oxide	OSHA PEL (United States, 5/2018).
	TWA: 90 mg/m³ 8 hours. TWA: 25 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 25 ppm 8 hours.
	TWA: 91 mg/m ³ 8 hours.
1-nitropropane	ACGIH TLV (United States, 1/2021).
	TWA: 20 mppcf 8 hours.
	OSHA PEL Z3 (United States, 6/2016).
	fraction
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable
Mica-group minerals	ACGIH TLV (United States, 1/2021).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m ³ 8 hours.
	[Xylenes]
	OSHA PEL (United States, 5/2018).
	TWA: 100 ppm 8 hours.

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Section 8. Exposure controls/personal protection

		crystalline] TWA: 0.025 mg/m ³ 8 hours. Form: Respirable 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). [Silica, crystalline] TWA: 50 μg/m ³ 8 hours. Form: Respirable dust					
	Key to abbreviations	S					
A= Acceptable Maximum PeakS= Potential skin absorptionACGIH= American Conference of Governmental Industrial Hygienists.SR= Respiratory sensitizationC= Ceiling LimitSS= Skin sensitizationF= FumeSTEL= Short term Exposure limit valuesIPEL= Internal Permissible Exposure LimitTD= Total dustOSHA= Occupational Safety and Health Administration.TLV= Threshold Limit ValueR= RespirableTWA= Time Weighted AverageZ= 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. 							
 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	eating, smoking and using the lava Appropriate techniques should be	horoughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. re reusing. Ensure that eyewash stations and safety ion 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:
	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 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

			Hadte d. Otataa	D
Density(lbs / gal)	1	10.35		
Relative density	1	1.24		
Vapor density	1	Not available.		
Vapor pressure	1	Not available.		
Evaporation rate	:	Not available.		
Lower and upper explosive (flammable) limits	1	Not available.		
Flammability	÷	Not available.		
Decomposition temperature	÷	Not available.		
Auto-ignition temperature	3	Not available.		
Flash point	3	Closed cup: -20°C (-4°F)		
Boiling point	3	>37.78°C (>100°F)		
Melting point	÷	Not available.		
рН	÷	Not applicable.		
Odor threshold	:	Not available.		
Odor	:	Characteristic.		
Color	1	Silver-white.		
Physical state	:	Liquid.		
<u>Appearance</u>				

Product name HI-TEMP 1000VHA ALUMINUM

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	: 61% (v/v), 45.458% (v	v/w)
% Solid. (w/w)	: 54.542	

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 nitrogen oxides halogenated compounds Formaldehyde. metal oxide/ oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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	-
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	-
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	LD50 Oral	Rat	3.5 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
1,2,4-trimethylbenzene	LD50 Oral LC50 Inhalation Vapor LD50 Oral	Rat Rat Rat	8400 mg/kg 18000 mg/m³ 5 g/kg	- 4 hours -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary					
Skin	1	There are	e no data av	vailable on the mixture itself.	
Eyes	1	There are	e no data av	vailable on the mixture itself.	
Respiratory	:	There are	e no data av	vailable on the mixture itself.	
Sensitization					
Conclusion/Summary					
Skin	:	There are	e no data av	vailable on the mixture itself.	
Respiratory	:	There are	e no data av	vailable on the mixture itself.	
<u>Mutagenicity</u>					
Conclusion/Summary	:	There are	e no data av	vailable on the mixture itself.	
Carcinogenicity					
Conclusion/Summary	: There are no data available on the mixture itself.				
Classification					
Product/ingredient name		OSHA	IARC	NTP	

Product/ingredient name	USHA	IARC	NIP
x ylene	-	3	-
ethylbenzene	-	2B	-
cristobalite (<10 microns)	-	1	Known to be a human carcinogen.
crystalline silica, respirable	-	1	Known to be a human carcinogen.
powder (<10 microns)			

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + 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.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
dímethyl carbonate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
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

Eye contact Inhalation Skin contact Ingestion Over-exposure signs/sympt	::	Causes serious eye irritation. May cause respiratory irritation. Causes skin irritation. Defatting to the skin. No known significant effects or critical hazards.
Eye contact Inhalation	:	Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: respiratory tract irritation coughing

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Skin contact	: Adverse symptoms may include the following: irritation
	redness
	dryness
	cracking
Ingestion	: No specific data.
Delayed and immediate effect	<u>s and also chronic effects from short and long term exposure</u>
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. 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 exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects Long 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.
Potential chronic health eff	<u>cts</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	t <u>v</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 1000VHA ALUMINUM	7357.7	2414.1	N/A	44.4	5.5
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
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 EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
Solvent naphtha (petroleum), light aromatic		Fish	96 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	-				Readily Readily	

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
dimethyl 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

		United States	Page: 14/18
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Product name HI-TEMP 1000VHA ALUMINUM

Section 12. Ecological information

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

	DOT	IMDG	ΙΑΤΑ	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	П	II	II	
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)	1100	Not applicable.	Not applicable.	
RQ substances	(xylene, ethylbenzene)	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 \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Product name HI-TEMP 1000VHA 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 SKIN IRRITATION - 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
dimethyl 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 HNOC - Defatting irritant
xylene	≥5.0 - ≤10	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
1-nitropropane	≥1.0 - ≤3.1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 4
		United States Page: 16/18

Product name HI-TEMP 1000VHA ALUMINUM

Section 15. Regulatory information

			ACUTE TOXICITY (dermal) - Category 4
			ACUTE TOXICITY (inhalation) - Category 4
	ethylbenzene	≥0.10 - ≤2.6	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 - ≤2.4	FLAMMABLE LIQUIDS - Category 3
	light aromatic		SKIN IRRITATION - Category 2
			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	≤1.2	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

SARA 313

	Chemical name	CAS number	Concentration
Supplier notification	: 🗚 uminium 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 Flamma Date of previous issue Organization that prepared the SDS	bility : 3 Instability : 1 : 1/9/2019 : 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.