SAFETY DATA SHEET



Date of issue/Date of revision 8 July 2016 Version 5

<u>number</u>

Section 1. Identification		
Product name	: FRP-310 ADHESV AHE31001TN0.37	
Product code	: 00407654	
Other means of identification	: Not available.	
Product type	: Liquid.	
Product use	: Industrial applications.	
Relevant identified uses o	of the substance or mixture and uses advised against	
Use of the substance/ mixture	: Adhesive.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place	
Emergency telephone	Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)	

(514) 645-1320 (Canada)

01-800-00-21-400 (Mexico)

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	: CARCINOGENICITY - Category 1A	
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 44.8%	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	: May cause cancer.	
Precautionary statements	<u>5</u>	

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Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Response	: IF exposed or concerned: Get medical attention.
Storage	: Store locked up.
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. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Product name	:	FRP-310 ADHESV AHE31001TN0.37

Ingredient name	%	CAS number
acetone	≥1.0 - ≤5.0	67-64-1
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
titanium dioxide	≤1.0	13463-67-7
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.

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.

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Section 4. First aid measures

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 sympt	oms/effects, acute and delayed
Potential acute healt	<u>) effects</u>
Eye contact	: No known significant effects or critical hazards.

Lyc contact	. No known significant chects of childar hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/symp</u>	oms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate med	cal attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.

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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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. 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	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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. 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: 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	: Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. 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. 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
zcetone	ACGIH TLV (United States, 3/2015).
	STEL: 500 ppm 15 minutes.
	TWA: 250 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2400 mg/m ³ 8 hours.
	TWA: 1000 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	OSHA PEL Z3 (United States, 2/2013).
	TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
	Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	ACGIH TLV (United States, 3/2015).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable fraction
	OSHA PEL Z3 (United States).
	TWA: 30 mg/m ³ Form: Total dust
titanium dioxide	OSHA PEL (United States, 2/2013).
	TWA: 15 mg/m ³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2015).
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Section 8. Exposure controls/personal protection

crystalline silica, respirable powder (>10 microns)	TWA: 10 mg/m ³ 8 hours. OSHA PEL Z3 (United States, 2/2013).
	TWA: 10 mg/m³ / (%SiO2+2) 8 hours. Form: Respirable
	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable ACGIH TLV (United States, 3/2015).
	TWA: 0.025 mg/m ³ 8 hours. Form: Respirable fraction
	OSHA PEL Z3 (United States). TWA: 30 mg/m³ Form: Total dust
Key to abbreviatio	
A = Acceptable Maximum Peak	S = Potential skin absorption

A	= 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	:	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	:	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>'es</u>	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	1	Safety glasses with side shields.
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

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
Other skin protection	 handling this product. 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 provide the provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based on the task being performed and the risks involved and should be approved by a provided based b
Respiratory protection	 specialist before handling this product. 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, artificity exposite 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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	1	Not available.
Odor	1	Characteristic.
Odor threshold	1	Not available.
рН	1	8
Melting point	1	Not available.
Boiling point	4	>37.78°C (>100°F)
Flash point	1	Closed cup: 100°C (212°F)
Material supports	1	Yes.
combustion.		
Auto-ignition temperature		Not available.
Decomposition temperature	÷	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	1	Upper: 0%
Evaporation rate	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.45
Density(lbs / gal)	:	12.1
Solubility	:	Soluble in the following materials: cold water.
Partition coefficient: n-	1	Not available.
octanol/water		2
Viscosity	÷	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	÷	\$5% (v/v), 37.326% (w/w)
% Solid. (w/w)	÷	6 2.674

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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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity					
Product/ingredient name	Result	Species	Dose	Exposure	
acetone	LC50 Inhalation Vapor	Rat	76000 mg/m ³	4 hours	
	LD50 Dermal	Rabbit	20 g/kg	-	
	LD50 Oral	Rat	1.8 g/kg	-	
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-	
Conclusion/Summary	: There are no data available o	n the mixture itse	lf.		
Irritation/Corrosion					
Conclusion/Summary					
Skin	: There are no data available o	n the mixture itse	lf.		
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 o	n the mixture itse	lf.		
Respiratory	: There are no data available o	n the mixture itse	lf.		
<u>Mutagenicity</u>					
Conclusion/Summary	: There are no data available o	n the mixture itse	lf.		
Carcinogenicity					
Conclusion/Summary	: There are no data available o	n the mixture itse	lf.		
Classification					

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Section 11. Toxicological information

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Product/ingredient name	OSHA	IARC	NTP		
crystalline silica, respirable powder (<10 microns)	-	1	Known to be a human carcinogen.		
titanium dioxide crystalline silica, respirable	-	2B 1	- Known to be a human carcinogen.		
powder (>10 microns)			raiowi to be a naman ouroinegen.		
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	e no data av	vailable on the mixture itself.		
Teratogenicity					
Conclusion/Summary					
Specific target organ toxicity (single exposure)					
Name				Category	
acetone				Category 3	
Specific target organ toxicity (repeated exposure)					
Name				Category	
crystalline silica, respirable powder (<10 microns) Category 1			Category 1		
Target organs	Farget organs : Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, lungs, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, stomach.				
Aspiration hazard					

Not available.

Information on the likely routes of exposure

Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Delayed and immediate	effects and also chronic effects from short and long term exposure

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Section 11. Toxicological information

Conclusion/Summary	which can cause lung cancer or silico- and level of exposure to dust from sar Exposure to component solvent vapor occupational exposure limit may resul membrane and respiratory system irri- and central nervous system. Symptor muscular weakness, drowsiness and, Solvents may cause some of the abov some evidence that repeated exposur constant loud noise can cause greate noise alone. If splashed in the eyes, t damage. Ingestion may cause nause where known, delayed and immediate	kture itself. This product contains crystalline silica sis. The risk of cancer depends on the duration ading surfaces or mist from spray applications. The concentrations in excess of the stated the adverse health effects such as mucous tation and adverse effects on the kidneys, liver ms and signs include headache, dizziness, fatigue, in extreme cases, loss of consciousness. We effects by absorption through the skin. There is to organic solvent vapors in combination with the hearing loss than expected from exposure to he liquid may cause irritation and reversible a, diarrhea and vomiting. This takes into account, effects and also chronic effects of components are by oral, inhalation and dermal routes of		
<u>Short term exposure</u>				
Potential immediate effects	: There are no data available on the min	xture 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 effe	ects			
General	: Prolonged or repeated contact can de dermatitis.	fat the skin and lead to irritation, cracking and/or		
Carcinogenicity	: May cause cancer. Risk of cancer de	May cause cancer. Risk of cancer depends on duration and level of exposure.		
Mutagenicity	: No known significant effects or critical	No known significant effects or critical hazards.		
Teratogenicity	: No known significant effects or critical	No known significant effects or critical hazards.		
Developmental effects	No known significant effects or critical hazards.			
Fertility effects	No known significant effects or critical hazards.			
Numerical measures of toxic	<u>ity</u>			
Acute toxicity estimates				
Route		ATE value		
Øral		35292.9 mg/kg		

Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

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Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetone	-0.24	3	low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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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	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards Marine pollutant substances	No. Not applicable.	No. Not applicable.	No. Not applicable.

Additional information

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14. Transport information

- **DOT** : None identified.
- **IMDG** : None identified.
- IATA : None identified.

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

Section 15. Regulatory information

United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
acetone	Yes.	No.	No.	Yes.	No.
crystalline silica, respirable powder (<10 microns)	No.	No.	No.	No.	Yes.
titanium dioxide	No.	No.	No.	No.	Yes.
crystalline silica, respirable powder (>10 microns)	No.	No.	No.	No.	Yes.

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: This product contains a chemical known to the State of California to cause cancer.

Section 16. Other information

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Hazardous Material Information System (U.S.A.)
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Health : 2 * Flammability : 1 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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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Section 16. Other information

The customer is responsible for	or determining the PPE code for this material.
National Fire Protection Assoc	iation (U.S.A.)
Health : 2 Flammabil	lity : 1 Instability : 0
Date of previous issue	: 5/1/2016
Organization that prepared : the MSDS	: 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) UN = United Nations
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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.