# **SAFETY DATA SHEET**



Date of issue/Date of revision 19 May 2016 Version 1.01

Section 1. Identification		
Product name	: Nanpao Gray	
Product code	: PCTA70254	
Other means of identification	: Not available.	
Product type	: Powder.	
Relevant identified uses of the substance or mixture and uses advised against		
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	
Technical Phone Number	: 1-800-647-6050	

# 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	: COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 84.3%

GHS label elements Hazard pictograms



Product name Nanpao Gray

### Section 2. Hazards identification

Signal word	1	Danger
Hazard statements	:	May form combustible dust concentrations in air. Harmful if swallowed. May cause an allergic skin reaction. May cause genetic defects. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Precautionary statements		
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. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	:	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: 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	:	Keep container tightly closed. Keep away from heat, sparks, open flames and hot surfaces No smoking. Sanding and grinding dusts may be harmful if inhaled. Prevent dust accumulation. Emits toxic fumes when heated.
Hazards not otherwise classified	:	Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: Nanpao Gray

Ingredient name	%	CAS number
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	≥5.0 - ≤10 ≥1.0 - ≤5.0 ≤1.0	13463-67-7 2451-62-9 1333-86-4

SUB codes represent substances without registered CAS Numbers.

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### 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	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

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

# Potential acute health effects Eye contact Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eves.

	may cause inflation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits
	may cause irritation of the nose, throat and lungs.
Skin contact	: May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

#### Over-exposure signs/symptoms

erer engrie	<u>of inprovide</u>
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

indication of initiaculate met	alour attention and special deatment needed, in needessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

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

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 dust. 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	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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### Section 6. Accidental release measures

#### Large spill

: 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 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

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### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits OSHA PEL (United States, 2/2013). TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust ACGIH TLV (United States, 3/2015). TWA: 10 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 3/2015). TWA: 0.05 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 3/2015). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction OSHA PEL (United States, 2/2013).	
titanium dioxide 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione carbon black, respirable powder		
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.	
Key to abbreviations		
<ul> <li>A = Acceptable Maximum Peak</li> <li>CGIH = American Conference of Governmental Industrial Hygienists.</li> <li>C = Ceiling Limit</li> <li>F = Fume</li> <li>PEL = Internal Permissible Exposure Limit</li> <li>DSHA = Occupational Safety and Health Administration.</li> <li>R = Respirable</li> <li>Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances</li> <li>Onsult local authorities for acceptable exposure limits.</li> <li>Recommended monitoring in this product contains ingredients watmosphere or biological monitoring the ventilation or other control meas protective equipment. Reference shows a specific section of the section o</li></ul>	S = Potential skin absorption SR = Respiratory sensitization SS = Skin sensitization STEL = Short term Exposure limit values TD = Total dust TLV = Threshold Limit Value TWA = Time Weighted Average with exposure limits, personal, workplace may be required to determine the effectiveness of ures and/or the necessity to use respiratory hould be made to appropriate monitoring standards uments for methods for the determination of equired.	
ntrolsor mist, use process enclosures, loc to keep worker exposure to airborne limits. The engineering controls also below any lower explosive limits. Use they comply with the requirements or they comply with the requirements or	If user operations generate dust, fumes, gas, vapor al exhaust ventilation or other engineering controls contaminants below any recommended or statuto o need to keep gas, vapor or dust concentrations se explosion-proof ventilation equipment. process equipment should be checked to ensure f environmental protection legislation. In some gineering modifications to the process equipment ns to acceptable levels.	

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before<br/>eating, smoking and using the lavatory and at the end of the working period.<br/>Appropriate techniques should be used to remove potentially contaminated clothing.<br/>Contaminated work clothing should not be allowed out of the workplace. Wash<br/>contaminated clothing before reusing. Ensure that eyewash stations and safety<br/>showers are close to the workstation location.Eye/face protection<br/>Skin protection: Safety glasses with side shields.

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# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable.
Material supports combustion.	: Yes.
Auto-ignition temperature	: Not available.
Decomposition temperature	: 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	Not available.
Relative density	: 1.57
Density ( lbs / gal )	: 13.1
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.

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# Section 9. Physical and chemical properties

Volatility	1	0% (w/w)

% Solid. (w/w)

: 100

### 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
titanium dioxide	LD50 Oral	Rat	>11 g/kg	-
1,3,5-tris(oxiranylmethyl)-1,3, 5-triazine-2,4,6(1H,3H,5H)- trione	LD50 Oral	Rat	138 mg/kg	-
carbon black, respirable powder	LD50 Dermal	Rabbit	>3 g/kg	-
pondoi	LD50 Oral	Rat	>15400 mg/kg	-
Conclusion/Summary	: There are no data available on the	he mixture itself.		•
Irritation/Corrosion				
Conclusion/Summary				
	: There are no data available on the	he mixture itself.		
	<ul> <li>There are no data available on the second second</li></ul>			
Skin Eyes		he mixture itself.		
Skin Eyes	: There are no data available on the	he mixture itself.		
Skin Eyes Respiratory	: There are no data available on the	he mixture itself.		
Skin Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u>	: There are no data available on the	he mixture itself. he mixture itself.		
Skin Eyes Respiratory <u>Sensitization</u> <u>Conclusion/Summary</u> Skin	<ul><li>There are no data available on the</li><li>There are no data available on the</li></ul>	he mixture itself. he mixture itself. he mixture itself.		

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# Section 11. Toxicological information

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide carbon black, respirable powder	-	2B 2B	-

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 c	on the mixture itself.
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#### Teratogenicity

Conclusion/Summary	: There are no data available on the mixture itself.
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#### Specific target organ toxicity (single exposure)

Not available.

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

Name	Category
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	Category 2

**Target organs** 

: Contains material which causes damage to the following organs: upper respiratory tract, skin, eyes.

Contains material which may cause damage to the following organs: kidneys, lungs, the reproductive system, , testes.

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sy	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: irritation redness

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# Section 11. Toxicological information

Inhalation	r	Adverse symptoms may include the following: respiratory tract irritation coughing		
Skin contact	: / i	Adverse symptoms may include the following: irritation redness		
Ingestion	: 1	No specific data.		
Delayed and immediate effect	ts a	nd also chronic effects from short an	<u>id long term exposure</u>	
Conclusion/Summary	ا ۲ ۲	There are no data available on the mixture itself. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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	: 7	There are no data available on the mixtu	ure itself.	
Potential delayed effects	: 7	There are no data available on the mixture itself.		
<u>Long term exposure</u>				
Potential immediate effects	: 7	There are no data available on the mixture itself.		
Potential delayed effects	: 7	There are no data available on the mixtu	ure itself.	
Potential chronic health effe	cts			
General	F	May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.		
Carcinogenicity		Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		
Mutagenicity	: 1	May cause genetic defects.		
Teratogenicity	: 1	No known significant effects or critical hazards.		
<b>Developmental effects</b>	: 1	No known significant effects or critical hazards.		
Fertility effects	: 1	No known significant effects or critical hazards.		
Numerical measures of toxic	ity			
Acute toxicity estimates				
Route			ATE value	
Oral			326.3 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

Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

**Disposal methods** 

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

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

**United States** Page: 11/13

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### **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.

### 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

: Fire hazard 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
titanium dioxide	No.	No.	No.	No.	Yes.
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-	Yes.	No.	No.	Yes.	Yes.
2,4,6(1H,3H,5H)-trione					
carbon black, respirable powder	Yes.	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

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

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

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)Health : 3Flammability : 0Instability : 0Date of previous issue: 4/28/2016

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### Section 16. Other information

Organization that prepared the MSDS	: EHS
Key to abbreviations	<ul> <li>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</li> </ul>

#### 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.