# **SAFETY DATA SHEET**



Date of issue/Date of revision 11 October 2016 Version 3.03

Section 1. Identification			
Product name	: PLUS INT FLAT WHITE 27100		
Product code	: 00414788		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses o	f the substance or mixture and uses advised against		
Product use	: Industrial 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) 01-800-00-21-400 (Mexico)		

Technical Phone Number : 1-800-441-9695 (8:00 am to 5:00 pm EST)

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 2	
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 36.5%	
GHS label elements		
Hazard pictograms		
Signal word	: Warning	
Hazard statements	: Suspected of causing cancer.	
Precautionary statements		

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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	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture	
Product name	: PLUS INT FLAT WHITE 2710	0

Ingredient name	%	CAS number
titanium dioxide	≥10 - ≤20	13463-67-7

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<br/>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<br/>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained<br/>personnel.Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water<br/>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<br/>person warm and at rest. Do NOT induce vomiting.

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

### Potential acute health effects

Eye contact

: No known significant effects or critical hazards.

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# Section 4. First aid measures

Inhalation	: No known significant effects or critical hazards.	
Skin contact	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/sym	<u>otoms</u>	
Eye contact	No specific data.	
Inhalation	: No specific data.	
Skin contact	No specific data.	
Ingestion	: No specific data.	
Indication of immediate me	dical 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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 containment 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.

# Section 7. Handling and storage

### Precautions for safe handling

	United States Page: 4/11
Advice on general occupational hygiene	<ul> <li>the hazards of all of its parts.</li> <li>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.</li> </ul>
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
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.

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# Section 7. Handling and storage

Conditions for safe storage,	: Do not store below the following temperature: 5°C (41°F). Store in accordance with
including any	local regulations. Store in original container protected from direct sunlight in a dry, cool
incompatibilities	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		
titaniu	ım dioxide	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.		
	Key to abbreviatio	uns		
А	= Acceptable Maximum Peak	S = Potential skin absorption		
ACGIH	<ul> <li>American Conference of Governmental Industrial Hygienists.</li> </ul>	SR = Respiratory sensitization		
С	= Ceiling Limit	SS = Skin sensitization		
F	= Fume	STEL = Short term Exposure limit values		
IPEL	<ul> <li>Internal Permissible Exposure Limit</li> </ul>	TD = Total dust		
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV = Threshold Limit Value		

TWA

= Time Weighted Average

R = Respirable

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

### Consult local authorities for acceptable exposure limits.

		United States Page: 5/
Eye/face protection	:	Safety glasses with side shields.
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 safe showers are close to the workstation location.
Individual protection meas		
Environmental exposure controls	:	airborne contaminants below any recommended or statutory limits. 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 equipmen will be necessary to reduce emissions to acceptable levels.
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
Recommended monitorin procedures		atmosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standar Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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# Section 8. Exposure controls/personal protection

Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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	: Liquid.
Color	: Various
Odor	: Characteristic.
Odor threshold	: Not available.
рН	: 9
Melting point	: Not available.
Boiling point	: 100°C (212°F)
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	: Upper: 0%
Evaporation rate	: 0.05 (butyl acetate = 1)
Vapor pressure	: 3.3 kPa (25 mm Hg) [room temperature]
Vapor density	: Not available.
Relative density	: 1.38
Density(lbs / gal)	: 11.52
Solubility	: Partially soluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.

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# Section 9. Physical and chemical properties

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: Kinematic (40°C (104°F)): >0.21 cm<sup>2</sup>/s (>21 cSt)

### Volatility : 🕅 % (v/v), 44.353% (w/w)

% Solid. (w/w)

: 55.647

# 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	-
Conclusion/Summary	: There are no data availa	ble on the mixture itse	elf.	
rritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data availa	ble on the mixture itse	elf.	
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 availa	ble on the mixture itse	elf.	
Respiratory	: There are no data available on the mixture itself.			
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data availa	ble on the mixture itse	elf.	
Carcinogenicity				
Conclusion/Summary	: There are no data availa	ble on the mixture itse	elf.	
Classification				

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# Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP	
titanium dioxide	-	2B	-	
Carcinogen Classification	n code:	<b>!</b>		
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	e a human ca	rcinogen; Re	asonably anticipated to be a human carcinogen	
Reproductive toxicity				
Conclusion/Summary	: There ar	e no data a	available on the mixture itself.	
<u>Teratogenicity</u>				
Conclusion/Summary	: There ar	e no data a	available on the mixture itself.	
Specific target organ toxicity	<u>/ (single ex</u>	<u>(posure)</u>		
Not available.				
Specific target organ toxicity	(repeated	exposure		
Not available.			*	
Target organs	: Contains tract.	s material v	which may cause damage to the following organs: upper respiratory	
Aspiration hazard				
Not available.				
Information on the likely route	es of expos	sure		
Potential acute health effects				
Eye contact		n significa	nt effects or critical hazards.	
Inhalation		-	nt effects or critical hazards.	
Skin contact		•	nt effects or critical hazards.	
Ingestion		No known significant effects of critical hazards.		
Over-exposure signs/sympto		in olgriniou		
Eye contact	: No speci	ific data.		
Inhalation	: No speci			
Skin contact	: No speci			
Ingestion	: No speci			
•	•		ffects from short and long term exposure	
Conclusion/Summary	: There ar cause irr vomiting also chro	e no data a itation and . This take onic effects	available on the mixture itself. If splashed in the eyes, the liquid may reversible damage. Ingestion may cause nausea, diarrhea and es into account, where known, delayed and immediate effects and of components from short-term and long-term exposure by oral, nal routes of exposure and eye contact.	
Short term exposure				
Potential immediate effects	: There ar	re no data a	available on the mixture itself.	
Potential delayed effects	: There ar	re no data a	available on the mixture itself.	
Long term exposure				

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# Section 11. Toxicological information

Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	<u>ects</u>
General	: No known significant effects or critical hazards.
Carcinogenicity	<ul> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.</li> </ul>
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: 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.
Not available.	

# 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

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.
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Disposal should be in accordance with applicable regional, national and local laws and regulations.

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### Section 13. Disposal considerations

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.

**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 : Delayed (chronic) health hazard

**Composition/information on ingredients** 

Name	hazard	Sudden release of pressure	Reactive	(acute) health	Delayed (chronic) health hazard
titanium dioxide	No.	No.	No.	No.	Yes.

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# Section 15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

# Section 16. Other information

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

Health : 1 \* Flammability : 0 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 SDSs 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 : 1 Flamma	ability : 0 Instability : 0
Date of previous issue	: 10/6/2016
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

### 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.