## **SAFETY DATA SHEET**



Date of issue/Date of revision14 December 2018Version 12

Section 1. Identification		
Product name	: PS 890 C 80 Part A	
Product code	: PS 890 C 80 Part A	
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.	
Use of the substance/ mixture	: Sealants	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342	
Emergency telephone number	Phone: 818 362 6711 : (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	

### Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.4% (Oral), 92.5% (Dermal), 49.6% (Inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Warning

**United States** 

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### Section 2. Hazards identification

Hazard statements	<ul> <li>Harmful if swallowed or if inhaled.</li> <li>Suspected of damaging fertility.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure. (brain)</li> </ul>
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. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
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. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: Oxidising potential : Contact with combustible material may cause fire. Keep away from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	÷	PS 890 C 80 Part A

Ingredient name	%	CAS number
manganese dioxide	≥20 - ≤50	1313-13-9
Terphenyl, hydrogenated	≥20 - ≤50	61788-32-7
Zeolites	≥5.0 - ≤10	1318-02-1
Polyphenyls, quater- and higher, partially hydrogenated	≥5.0 - ≤10	68956-74-1
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	14807-96-6
carbon black, respirable powder	≥1.0 - ≤5.0	1333-86-4
magnesium carbonate	≥1.0 - ≤5.0	546-93-0
terphenyl	≥1.0 - ≤5.0	26140-60-3
1,3-diphenylguanidine	≥1.0 - ≤4.8	102-06-7

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.

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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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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 effect	<u>ots</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Harmful if swallowed.
Over-exposure signs/symp	i <u>toms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate med	lical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.

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### Section 4. First aid measures

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides 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.

### Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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

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### Section 6. Accidental release measures

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

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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. 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	: Keep away from combustible materials. 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** 

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### Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
manganese dioxide	ACGIH TLV (United States, 3/2018).
0	TWA: 0.1 mg/m <sup>3</sup> , (as Mn) 8 hours. Form:
	Inhalable fraction
	TWA: 0.02 mg/m <sup>3</sup> , (as Mn) 8 hours. Form:
	Respirable fraction
	OSHA PEL (United States, 5/2018).
	CEIL: 5 mg/m <sup>3</sup> , (as Mn)
erphenyl, hydrogenated	ACGIH TLV (United States, 3/2018).
	TWA: 4.9 mg/m <sup>3</sup> 8 hours.
	TWA: 0.5 ppm 8 hours.
Zeolites	ACGIH TLV (United States, 3/2018).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
Polyphenyls, quater- and higher, partially hydrogenated	None.
Falc, not containing asbestiform fibres	ACGIH TLV (United States, 3/2018).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m <sup>3</sup>
arbon black, respirable powder	ACGIH TLV (United States, 3/2018).
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
nagnesium carbonate	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
erphenyl	ACGIH TLV (United States, 3/2018).
erphenyi	C: 5 mg/m <sup>3</sup>
	C: 0.53 ppm
	OSHA PEL (United States, 5/2018).
	CEIL: 9 mg/m <sup>3</sup>
1.2 diphonylayopiding	CEIL: 1 ppm
1,3-diphenylguanidine	None.
Key to abbreviatio	ns
A = Acceptable Maximum Peak	S = Potential skin absorption
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization STEL = Short term Exposure limit values
F = Fume PEL = Internal Permissible Exposure Limit	STEL = Short term Exposure limit values TD = Total dust
SHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value

= Respirable R

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

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring** : 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.

TWA

= Time Weighted Average

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### Section 8. Exposure controls/personal protection

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.
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 measu	ires
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>	: 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.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber, PVC, natural rubber (latex)
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	: Black.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.

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### Section 9. Physical and chemical properties

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Boiling point	1	360°C (680°F)
Flash point	1	Closed cup: Not applicable.
Material supports combustion.	:	Yes.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Evaporation rate	1	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Not available.
Relative density	1	1.76
Density(lbs / gal)	1	14.69
Solubility	1	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	;	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
VOC	1	0
% Solid. (w/w)	:	100

### Section 10. Stability and reactivity

<b>D</b> (1.14)	
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
manganese dioxide	LD50 Oral			Rat	3478 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral			Rat	17500 mg/kg	-
Zeolites	LD50 Oral			Rat	>5 g/kg	-
carbon black, respirable powder	LD50 Derr	nal		Rabbit	>3 g/kg	-
	LD50 Oral			Rat	>15400 mg/kg	-
magnesium carbonate	LD50 Oral			Rat	8000 mg/kg	-
terphenyl	LD50 Oral			Rat - Female	2304 mg/kg	-
1,3-diphenylguanidine	LD50 Oral			Rat	323 mg/kg	-
Conclusion/Summary	: There are	e no data a	vailable on th	ne mixture itself.		
rritation/Corrosion						
Conclusion/Summary						
Skin	: There are	e no data a	vailable on th	ne mixture itself.		
Eyes	: There are	e no data a	vailable on th	ne mixture itself.		
Respiratory	: There are	e no data a	vailable on th	ne mixture itself.		
Sensitization						
Conclusion/Summary						
Skin	: There are	e no data a	vailable on th	ne mixture itself.		
Respiratory	: There are	: There are no data available on the mixture itself.				
<u>Mutagenicity</u>						
Conclusion/Summary	: There are	e no data a	vailable on th	ne mixture itself.		
Carcinogenicity						
Conclusion/Summary	: There are	e no data a	vailable on th	ne mixture itself.		
<b>Classification</b>						
Product/ingredient name	OSHA	IARC	NTP			
Zeolites	-	3	-			
carbon black, respirable powder	-	2B	-			
Carcinogen Classification	n code:	1	1			
IARC: 1, 2A, 2B, 3	, 4 e a human carc	inogen; Rea	sonably anticip	ated to be a huma	n carcinogen	
Reproductive toxicity						
Conclusion/Summary	: There are					

#### **Teratogenicity**

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

Specific target organ toxicity (single exposure)

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### Section 11. Toxicological information

Name	Category
Talc , not containing asbestiform fibres	Category 3
1,3-diphenylguanidine	Category 3

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

Name	Category
manganese dioxide	Category 2

Target organs

: Contains material which causes damage to the following organs: lungs, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens or cornea.

#### Aspiration hazard

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

r oteritiar adate ricultir crico	
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sympt	<u>oms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	

### Section 11. Toxicological information

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Potential immediate effects	: There are no data available on the mixture itself.		
Potential delayed effects	: There are no data available on the mixture itself.		
<u>Long term exposure</u>			
Potential immediate effects	: There are no data available on the mixture itself.		
Potential delayed effects	: There are no data available on the mixture itself.		
Potential chronic health eff	<u>ects</u>		
General	: May cause 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	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.		
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	: Suspected of damaging fertility.		
Numerical measures of toxi	<u>city</u>		
Acute toxicity estimates			
Route	ATE value		
Øral	1046.9 mg/kg		

Øral	1046.9 mg/kg
Inhalation (gases)	5011.7 ppm
Inhalation (vapors)	12.25 mg/l
Inhalation (dusts and mists)	1.671 mg/l

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	···· 5	Daphnia Daphnia	48 hours 72 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
terphenyl	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
7,3-diphenylguanidine	1.69	19.95	low

#### Mobility in soil

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

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### Section 12. Ecological information

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. 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
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	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Ferphenyl, hydrogenated, terphenyl)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Ferphenyl, hydrogenated, terphenyl)
Transport hazard class (es)	-	9	9
Packing group	-	Ш	111
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	rephenyl, hydrogenated, terphenyl)	Not applicable.

#### **Additional information**

DOT	: None identified.
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

# **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.

Product name PS 890 C 80 Part A

### 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	: ACUTE TOXICITY (oral) - Category 4
	ACUTE TOXICITY (inhalation) - Category 4
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION (Fertility) - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain) - Category 2
	HNOC - Avoid contact with organic materials.
	HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
manganese dioxide	≥20 - ≤50	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (brain) (inhalation) - Category 2 HNOC - Avoid contact with organic materials.
Polyphenyls, quater- and higher, partially hydrogenated	≥5.0 - ≤10	HNOC - Defatting irritant
Talc , not containing asbestiform fibres	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
carbon black, respirable powder	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS CARCINOGENICITY - Category 2
1,3-diphenylguanidine	≥1.0 - ≤4.8	COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### <u>SARA 313</u>

#### Chemical name

: manganese dioxide

<u>CAS number</u> 1313-13-9 Concentration 30 - 60

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.

#### California Prop. 65

**Supplier notification** 

**WARNING**: Cancer - www.P65Warnings.ca.gov.

Product name PS 890 C 80 Part A

### Section 16. Other information

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

Health : 3 \* Flammability : 0 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.)

Date of previous issue: 6/28/2018Organization that prepared the MSDS: EHSKey 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 = Intermediate 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)	Health : 3 Flammabilit	ity: 0 Instability: 1
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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.

## **SAFETY DATA SHEET**



Date of issue/Date of revision 5 March 2019 Version 6

Section 1. Identification		
Product name	: PS 890 C 80 Part B	
Product code	: PS 890 C 80 Part B	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Sealants	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Aerospace PRC-DeSoto 12780 San Fernando Road Sylmar, CA 91342 Phone: 818 362 6711	
Emergency telephone number	: (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	■ FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 6.3% (Oral), 65.7% (Dermal), 80.3% (Inhalation)
	This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8).
GHS label elements	

**United States** 

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Product name PS 890 C 80 Part B

### Section 2. Hazards identification

Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>Fammable liquid and vapor.</li> <li>Suspected of damaging the unborn child.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statement	<u>s</u>
Prevention	: Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Do not breathe vapor.
Response	: Set medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.
Hazards not otherwise classified	: <b>P</b> rolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture	
Product name	: PS 890 C 80 Part E	}

Ingredient name	%	CAS number
calcium carbonate	≥20 - ≤50	471-34-1
Limestone	≥5.0 - ≤10	1317-65-3
toluene	≥5.0 - <10	108-88-3
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane	<1.0	3388-04-3

SUB codes represent substances without registered CAS Numbers.

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

Product name PS 890 C 80 Part B

### Section 3. Composition/information on ingredients

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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	<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 effe	<u>cts</u>
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/sym	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths
	skeletal malformations
Skin contact	: Koverse symptoms may include the following: irritation dryness
	cracking reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	No specific treatment.
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### Section 4. First aid measures

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 dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Fammable 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. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon 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.
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 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

Product name PS 890 C 80 Part B

### Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.
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 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
alcium carbonate	ACGIH TLV (United States).
	TWA: 3 mg/m <sup>3</sup> Form: Respirable
	TWA: 10 mg/m <sup>3</sup> Form: Total dust
	OSHA PEL (United States).
	TWA: 5 mg/m <sup>3</sup> Form: Respirable
	TWA: 15 mg/m <sup>3</sup>
Limestone	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2018).
	TWA: 20 ppm 8 hours.
titanium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2018).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
2-(3,4-epoxycyclohexyl)ethyltrimethoxysilane	None.

Rey to abbreviations		
<ul> <li>Acceptable Maximum Peak</li> </ul>	S	<ul> <li>Potential skin absorption</li> </ul>
<ul> <li>American Conference of Governmental Industrial Hygienists.</li> </ul>	SR	<ul> <li>Respiratory sensitization</li> </ul>
= Ceiling Limit	SS	<ul> <li>Skin sensitization</li> </ul>
= Fume	STEL	<ul> <li>Short term Exposure limit values</li> </ul>
<ul> <li>Internal Permissible Exposure Limit</li> </ul>	TD	= Total dust
<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV	= Threshold Limit Value
= Respirable	TWA	= Time Weighted Average
= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		
	<ul> <li>Acceptable Maximum Peak</li> <li>American Conference of Governmental Industrial Hygienists.</li> <li>Ceiling Limit</li> <li>Fume</li> <li>Internal Permissible Exposure Limit</li> <li>Occupational Safety and Health Administration.</li> <li>Respirable</li> </ul>	= Acceptable Maximum PeakS= American Conference of Governmental Industrial Hygienists.SR= Ceiling LimitSS= FumeSTEL= Internal Permissible Exposure LimitTD= Occupational Safety and Health Administration.TLV= RespirableTWA

### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	•	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### Section 8. Exposure controls/personal protection

### Individual protection measures

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	: Safety glasses with side shields.
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.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: natural rubber (latex)
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

### Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Øff-white.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 27.78°C (82°F)
Material supports combustion.	: Yes.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

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Product name PS 890 C 80 Part B

### Section 9. Physical and chemical properties

Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1%
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.56
Density ( lbs / gal )	: 1/3.02
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
VOC	: 😰 g/l

### 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

<b>Acute</b>	toxi	icity

Product/ingredient name	Result	Species	Dose	Exposure
alcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
Limestone	LD50 Oral	Rat	6450 mg/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
			United States	Page: 8/14

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#### 11 Toxicological inf ~ 41 ....

2-(3,4-epoxycyclohexyl) ethyltrimethoxysilane	LD50 Dern	nal	R	abbit	6.7 g/kg	-
- •	LD50 Oral		R	at	13 g/kg	-
Conclusion/Summary	: There are	no data a	vailable on the	mixture itself.		
Irritation/Corrosion						
Conclusion/Summary						
Skin			vailable on the			
Eyes			vailable on the			
Respiratory	: There are	e no data av	vailable on the	mixture itself.		
Sensitization						
<u>Conclusion/Summary</u> Skin	. Thore are	no doto o	vailable on the	mixture iteelf		
Respiratory	: There are	no data a	vailable on the	mixture itself.		
Mutagenicity	. There are	no dete -	voilable en the	minture iteelf		
Conclusion/Summary	: i nere are	ino data a	vailable on the	mixture itself.		
Carcinogenicity	<b>T</b> I					
Conclusion/Summary	: There are	e no data av	vailable on the	mixture itseif.		
<u>Classification</u>			1			
Product/ingredient name	OSHA	IARC	NTP			
toluene	-	3	-			
titanium dioxide		2B	-			
Carcinogen Classification						
IARC: 1, 2A, 2B, 3 NTP: Known to b	, 4 e a human carc	inogen; Reas	sonably anticipate	d to be a human	carcinogen	
OSHA: +			-			
Not listed/not reg	uidleu					
Reproductive toxicity						
Conclusion/Summary	: There are	no data av	ailable on the n	nixture itself.		
<b>Feratogenicity</b>						
Conclusion/Summary			ailable on the n	nixture itself.		
Specific target organ toxicity	/ (single exp	<u>osure)</u>				<u> </u>
Name						Category
toluene						Category 3
Specific target organ toxicity	/ (repeated e	<u>xposure)</u>				<b>-</b>
Name						Category
toluene						Category 2
						1
Target organs	· Pontaina	notorial	high acuses day	and to the f-	lowing organs: b	ain

#### **Aspiration hazard**

United States
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Product name PS 890 C 80 Part B

### Section 11. Toxicological information

Name	Result			
toluene	ASPIRATION HAZARD - Category 1			
Information on the likely routes of exposure				
Potential acute health effects				

Potential acute nealth 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/sympto	<u>ms</u>
Eye contact	: No specific data.
Inhalation	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	Adverse symptoms may include the following:
	irritation
	dryness cracking
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Ingestion	: Adverse symptoms may include the following:
	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
-	and also chronic effects from short and long term exposure
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 TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/ or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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### Section 11. Toxicological information

<u>Short term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	: There are no data available on the mixture itself.
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	ects
General Carcinogenicity	<ul> <li>May cause damage to organs through prolonged or repeated exposure. Prolonged or</li> <li>repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.</li> <li>Suspected of causing cancer. Risk of cancer depends on duration and level of</li> </ul>
Mutagenicity	: Applysoner significant effects or critical hazards.
Teratogenicity Developmental effects Fertility effects	<ul> <li>Suspected of damaging the unborn child.</li> <li>No known significant effects or critical hazards.</li> <li>No known significant effects or critical hazards.</li> </ul>

### Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
calcium carbonate	Acute EC10 >14 mg/l Acute LC50 >56000 mg/l	Algae Fish	72 hours 96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

#### Persistence and degradability

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	8.32	low

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

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### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information				
	DOT	IMDG	ΙΑΤΑ	
UN number	Not regulated.	<mark>₩</mark> N1133	<b>W</b> N1133	
UN proper shipping name	-	A DHESIVES	ADHESIVES	
Transport hazard class (es)	-	3	3	
Packing group	-	M	W	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	17645.9	Not applicable.	Not applicable.	
RQ substances	(toluene)	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** : 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.

Product name PS 890 C 80 Part B

### 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

: FLAMMABLE LIQUIDS - Category 3 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
<b>fo</b> luene	≥5.0 - <10	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
titanium dioxide 2-(3,4-epoxycyclohexyl) ethyltrimethoxysilane	≥1.0 - ≤5.0 <1.0	CARCINOGENICITY - Category 2 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2 HNOC - Defatting irritant

#### <u>SARA 313</u>

#### Chemical name toluene

<u>CAS number</u> 108-88-3 Concentration 3 - 7

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.

#### California Prop. 65

**Supplier notification** 

MARNING: Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

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

Health : 72 \* Flammability : 3 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 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.

United States Page: 13/14

Product name PS 890 C 80 Part B

### Section 16. Other information

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 : 72 Flamma Date of previous issue	ability : 3 Instability : 0 : 2/14/2019
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 = 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) 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.