# **SAFETY DATA SHEET**



Date of issue/Date of revision19 June 2021Version 21

Section 1. Identification		
Product name	: PR 1770 C 336 Part A	
Product code	: PR 1770 C 336 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 Phone: 918 262 6711	
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 - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 6.3% (oral), 94.9% (dermal), 48.3% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Warning

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# Section 2. Hazards identification

Hazard statements	Harmful if swallowed or if inhaled. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (brain)	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions h been read and understood. Wear protective gloves, protective clothing and eye or protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. not eat, drink or smoke when using this product. Wash thoroughly after handling.	face
Response	IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER of doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if y feel unwell. Rinse mouth.	or
Storage	Store locked up.	
Disposal	Dispose of contents and container in accordance with all local, regional, national a international regulations.	nd
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 awa from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact dry skin and cause irritation.	

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Product name	:	PR 1770 C 336 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 fibers	≥1.0 - ≤5.0	14807-96-6
carbon black	≥1.0 - ≤5.0	1333-86-4
terphenyl	≥1.0 - ≤5.0	26140-60-3
magnesium carbonate	≥1.0 - ≤5.0	546-93-0
1,3-diphenylguanidine	≥1.0 - ≤4.6	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.

# 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	ts
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	<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
	skeletal mailonnations
Indication 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.

### 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 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, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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# Section 7. Handling and storage

# Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. 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. Store locked up. 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
manganese dioxide	ACGIH TLV (United States, 3/2020).
	TWA: 0.1 mg/m³, (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/m³, (as Mn)
erphenyl, hydrogenated	ACGIH TLV (United States, 3/2020).
	TWA: 4.9 mg/m <sup>3</sup> 8 hours.
	TWA: 0.5 ppm 8 hours.
Zeolites	ACGIH TLV (United States, 3/2020).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
olyphenyls, quater- and higher, partially hydrogenated	None.
alc, not containing asbestiform fibers	ACGIH TLV (United States, 3/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m <sup>3</sup>
carbon black	ACGIH TLV (United States, 3/2020).
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# Section 8. Exposure controls/personal protection

	Key to abbreviations
1,3-diphenylguanidine	None.
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	fraction
magnesium carbonate	OSHA PEL (United States, 5/2018). TWA: 5 mg/m³ 8 hours. Form: Respirable
	CEIL: 1 ppm
	CEIL: 9 mg/m <sup>3</sup>
	OSHA PEL (United States, 5/2018).
	C: 0.53 ppm
	C: 5 mg/m <sup>3</sup>
terphenyl	ACGIH TLV (United States, 3/2020).
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
	OSHA PEL (United States, 5/2018).
	fraction
	TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable

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

### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	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 measure	es	
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		

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# Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber, 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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

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Appearance		
Physical state	1	Liquid.
Color	1	Black.
Odor	1	Not available.
Odor threshold	1	Not available.
рН	4	Not applicable.
Melting point	1	Not available.
Boiling point	1	360°C (680°F)
Flash point	1	Closed cup: Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	1	Not available.
Evaporation rate	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	1	1.76
Density(lbs / gal)	:	14.69
Solubility	;	Insoluble in the following materials: cold water.

**United States** 

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# Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: <b>K</b> inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VOC	: 0
% 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	:	Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides

# 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	LD50 Oral	Rat	>10 g/kg	-
terphenyl	LD50 Oral	Rat - Female	2304 mg/kg	-
magnesium carbonate	LD50 Oral	Rat	8000 mg/kg	-
1,3-diphenylguanidine	LD50 Oral	Rat	323 mg/kg	-
<u>rritation/Corrosion</u> <u>Conclusion/Summary</u> Skin	: There are no data availab	le on the mixture itself		
Eyes	: There are no data availab			
Respiratory	: There are no data availab			
Sensitization Conclusion/Summary				

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# Section 11. Toxicological information

Respiratory	: There are	e no data av	ailable on the mixture itself.
Mutagenicity			
<b>Conclusion/Summary</b>	: There are	e no data av	ailable on the mixture itself.
<b>Carcinogenicity</b>			
<b>Conclusion/Summary</b>	: There are	e no data av	vailable on the mixture itself.
<b>Classification</b>			
Product/ingredient name	OSHA	IARC	NTP

Product/ingredient name	OSHA	IARC	NTP
Zeolites carbon black	-	3 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 on the mixture itself.

### **Teratogenicity**

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

### Specific target organ toxicity (single exposure)

Name	• •	Route of exposure	Target organs
√alc, not containing asbestiform fibers	Category 3		Respiratory tract irritation
1,3-diphenylguanidine	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

I	Name		Route of exposure	Target organs
1	manganese dioxide	Category 2	inhalation	brain

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

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.

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# Section 11. Toxicological information

Ingestion	: Harmful if swallowed.
Over-exposure signs/symp	
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:
ingestion	reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<b>Conclusion/Summary</b>	: 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.
Short term exposure	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Potential chronic health eff	
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.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	ity
Acute toxicity estimates	-
- to the terminal y verman ver	

# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PR 1770 C 336 Part A	1016.8	N/A	N/A	N/A	1.7
manganese dioxide	500	N/A	N/A	N/A	1.5
Terphenyl, hydrogenated	17500	N/A	N/A	N/A	N/A
terphenyl	2304	N/A	N/A	N/A	N/A
magnesium carbonate	8000	N/A	N/A	N/A	N/A
1,3-diphenylguanidine	323	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Zeolites terphenyl		Fish Daphnia Daphnia	96 hours 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
,3-diphenylguanidine	2.42	19.95	low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

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Disposal methods
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: 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

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# Section 13. Disposal considerations

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	No. Not applicable.	No. Not applicable.	No. Not applicable.
substances			

### 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.

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

### United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

### SARA 311/312

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# Section 15. Regulatory information

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

### **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 HNOC - Avoid contact with organic materials.
Polyphenyls, quater- and higher,	≥5.0 - ≤10	HNOC - Defatting irritant
partially hydrogenated	25.0 - 210	
Talc, not containing asbestiform	≥1.0 - ≤5.0	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibers		(Respiratory tract irritation) - Category 3
carbon black	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2
1,3-diphenylguanidine	≥1.0 - ≤4.6	COMBUSTIBLE DUSTS
		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3

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

### Supplier notification

### Chemical name

on : manganese dioxide

nese diovide

<u>CA</u> 1'

CAS number Co 1313-13-9 30

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

MARNING: Cancer - www.P65Warnings.ca.gov.

# 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.)

Health : 3 Flammability : 0 Instability : 1

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# Section 16. Other information

Date of previous issue	2/2021	
Organization that prepared the SDS	HS	
Key to abbreviations	TE = Acute Toxicity Estimate CF = Bioconcentration Factor HS = Globally Harmonized System of Classification and Labelling TA = International Air Transport Association C = International Air Transport Association DG = International Maritime Dangerous Goods ogPow = logarithm of the octanol/water partition coefficient ARPOL = International Convention for the Prevention of Pollution a modified by the Protocol of 1978. ("Marpol" = marine pollution) /A = Not available GG = Segregation Group N = 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.

# **SAFETY DATA SHEET**



Date of issue/Date of revision11 June 2021Version 16

Section 1. Identification		
Product name	: PR 1770 C 336 Part B	
Product code	: PR 1770 C 336 Part B	
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	<ul> <li>FLAMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (dermal) - Category 4     </li> <li>EYE IRRITATION - Category 2B</li> <li>SKIN SENSITIZATION - Category 1</li> <li>CARCINOGENICITY - Category 2</li> <li>TOXIC TO REPRODUCTION - Category 2</li> <li>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 8.2% (oral), 10.8% (dermal), 87.7% (inhalation)

Version 16

Product name PR 1770 C 336 Part B

# Section 2. Hazards identification

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).

	engineering controls (see Section 8).
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>Flammable liquid and vapor. Harmful in contact with skin. May cause an allergic skin reaction. Causes eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.</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, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
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.

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Product name PR 1770 C 336 Part B

# Section 2. Hazards identification

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

### Substance/mixture Product name

: Mixture

: PR 1770 C 336 Part B

Ingredient name	%	CAS number
Ethanethiol, 2,2'-thiobis-, reaction products with reduced 1,1'-[methylenebis (oxy)]bis[2-chloroethane]-sodium sulfide (Na2 (Sx)-1,2,3-trichloropropane polymer	≥20 - <50	109159-22-0
calcium carbonate	≥20 - ≤49	471-34-1
toluene	≥5.0 - <10	108-88-3
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
2,2'-thiodiethanethiol	<1.0	3570-55-6

SUB codes represent substances without registered CAS Numbers.

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

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

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

# Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### Description of necessary first aid measures

Eye contact	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.		
Inhalation	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.		
Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.		
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.		
Most important symptoms/effects, acute and delayed			
Potential acute health effect			
Eye contact	Causes eye irritation.		
Inhalation	No known significant effects or critical hazards.		
Skin contact	Harmful in contact with skin. Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.		
Ingestion	No known significant effects or critical hazards.		

### Over-exposure signs/symptoms

Product name PR 1770 C 336 Part B

# Section 4. First aid measures

Eye contact	: Adverse symptoms may include the following: irritation watering redness
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 redness 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 medical 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.
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. 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, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/oxides Formaldehyde.

Product name PR 1770 C 336 Part B

# Section 5. Fire-fighting measures

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, protec	ipment and emergency procedures	<u>5</u>
For non-emergency personnel	ring. Do not touch or walk through sp ares, smoking or flames in hazard are juate ventilation. Wear appropriate re opropriate personal protective equipm	essary and unprotected personnel from illed material. Shut off all ignition sources. ea. Avoid breathing vapor or mist. Provide espirator when ventilation is inadequate. Put ient.
For emergency responders	<b>e</b> 1	rith the spillage, take note of any information in rials. See also the information in "For non-
Environmental precautions		off and contact with soil, waterways, drains is if the product has caused environmental
Methods and materials for co	ent and cleaning up	
Small spill	osion-proof equipment. Dilute with wa	from spill area. Use spark-proof tools and ater and mop up if water-soluble. Alternatively, Iry material and place in an appropriate waste sed waste disposal contractor.
Large spill	leak if without risk. Move containers psion-proof equipment. Approach rele r courses, basements or confined are or proceed as follows. Contain and o rbent material e.g. sand, earth, vermi- ainer for disposal according to local re	from spill area. Use spark-proof tools and ease from upwind. Prevent entry into sewers, eas. Wash spillages into an effluent treatment

same hazard as the spilled product. Note: see Section 1 for emergency contact

# Section 7. Handling and storage

# Precautions for safe handling Protective measures : Put on appropriate personal protective equipment (see Section 8). 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. 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 United States Page: 5/15

information and Section 13 for waste disposal.

Product name PR 1770 C 336 Part B

# Section 7. Handling and storage

	e t	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	t	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	t c	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	l i a r	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
Ethanethiol, 2,2'-thiobis-, reaction products with reduced 1,1'- [methylenebis(oxy)]bis[2-chloroethane]-sodium sulfide (Na2 (Sx) -1,2,3-trichloropropane polymer	None.
calcium 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>
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, 3/2020).
	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, 3/2020).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
2,2'-thiodiethanethiol	None.
Key to abbreviations	· · ·
A = Acceptable Maximum Peak	S = Potential skin absorption
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization

= Total dust

STEL

TD

TLV

TWA

= Short term Exposure limit values

= Threshold Limit Value

= Time Weighted Average

Product name PR 1770 C 336 Part B

# Section 8. Exposure controls/personal protection

F = Fume

IPEL = Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

= Respirable R Ζ

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

### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	1	Chemical splash goggles.
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	:	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. 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.

Product name PR 1770 C 336 Part B

# Section 8. Exposure controls/personal protection

Respiratory protection	: Respira hazard
	are exp certified

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Gray.
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: 110 to 176.67°C (230 to 350°F)
Flash point	: Closed cup: 42.22°C (108°F)
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	: 1.46
Density(lbs / gal)	: 12.18
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	: Not applicable.
Viscosity	: ₭inematic (40°C (104°F)): >21 mm²/s (>21 cSt)
VOC	: 73 g/l
% Solid. (w/w)	: 95

# Section 10. Stability and reactivity

	United States Page: 8/15
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Product name PR 1770 C 336 Part B

# Section 10. Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

- Incompatible materials
   : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

   Hazardous decomposition products
   : Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds Formaldehyde. metal oxide/
- Section 11. Toxicological information

oxides

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethanethiol, 2,2'-thiobis-, reaction products with reduced 1,1'-[methylenebis (oxy)]bis[2-chloroethane]- sodium sulfide (Na2 (Sx) -1,2,3-trichloropropane polymer	LD50 Oral	Rat	>3000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
toluene	LD50 Oral LC50 Inhalation Vapor LD50 Dermal	Rat Rat Rabbit	6450 mg/kg 49 g/m <sup>3</sup> 8.39 g/kg	- 4 hours -
titanium dioxide	LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	5580 mg/kg >6.82 mg/l >5000 mg/kg >5000 mg/kg	- 4 hours -
2,2'-thiodiethanethiol	LD50 Oral	Rat	200 mg/kg	-
Conclusion/Summary	: There are no data available on the second se	he mixture itself.	-	÷
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data available on the	he mixture itself.		
Eyes	: There are no data available on the mixture itself.			
Respiratory	: There are no data available on the	he mixture itself.		
<u>Sensitization</u>				
<u>Conclusion/Summary</u> Skin	. There are no date evaluate an th	a mivtura ita-lf		
	: There are no data available on the			
Respiratory	: There are no data available on the second se	ne mixture itself.		
<u>Mutagenicity</u>				
Conclusion/Summary	: There are no data available on the	ne mixture itself.		
<u>Carcinogenicity</u>				
Conclusion/Summary Classification	: There are no data available on the second se	ne mixture itself.		

# Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP				
toluene	-	3	-				
titanium dioxide	-	2B	-				
Carcinogen Classification	code:						
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	a human cai	cinogen; Re	asonably anticipate	d to be a hun	nan carcinogen		
eproductive toxicity							
Conclusion/Summary	: There ar	e no data a	available on the r	nixture itse	lf.		
<u>eratogenicity</u>							
Conclusion/Summary	: There ar	e no data a	available on the r	nixture itse	lf.		
Specific target organ toxicity	(single ex	<u>posure)</u>					
Name			Catego	ory	Route of exposure	Target organs	
toluene			Catego	ry 3	-	Narcotic effects	
Specific target organ toxicity	(repeated	exposure	)			I	
Name			Catego	ory	Route of exposure	Target organs	
toluene			Catego	ry 2	-	-	
	Contains reproduc	material v	n, liver, heart, up	damage to	the following or	s: brain. gans: blood, kidneys, tl entral nervous system	
Aspiration hazard Name				Res	ult		
					ASPIRATION HAZARD - Category 1		
toluene				ASP		TLD - Category T	
toluene	s of expos	ure		ASP		The Calegory 1	
toluene formation on the likely route		ure		ASP			
toluene formation on the likely route <u>Potential acute health effects</u> Eye contact	Causes	eye irritatio					
toluene formation on the likely route <u>Potential acute health effects</u> Eye contact Inhalation	Causes of No know	eye irritatio n significa	nt effects or critic	al hazards			
toluene formation on the likely route <u>Potential acute health effects</u> Eye contact	: Causes o : No know : Harmful	eye irritatio n significa in contact	nt effects or critic	al hazards ng to the s		skin dryness and	

### Over-exposure signs/symptoms

redness	Eye contact	: Adverse symptoms may include the following: irritation watering redness
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Product name PR 1770 C 336 Part B

# Section 11. Toxicological information

Inhalation	
innalation	: Adverse symptoms may include the following: reduced fetal weight
	increase in fetal deaths
	skeletal malformations
Skin contact	: Adverse symptoms may include the following:
	irritation
	redness
	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
	cts 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 health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness. 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.
<u>Short term exposure</u>	
Potential immediate	: There are no data available on the mixture itself.
effects	
Potential delayed effects	: There are no data available on the mixture itself.
Long term exposure	
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>

Product name PR 1770 C 336 Part B

# Section 11. Toxicological information

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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.
Reproductive toxic	ity : Suspected of damaging fertility or the unborn child.
Numerical measures	of toxicity

### Numerical measures of toxicity

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PR 1770 C 336 Part B Ethanethiol, 2,2'-thiobis-, reaction products with reduced 1,1'-[methylenebis(oxy)]bis[2-chloroethane]- sodium sulfide (Na2 (Sx)-1,2,3-trichloropropane polymer	5336 2500	1632.9 1100	N/A N/A	N/A N/A	N/A N/A
calcium carbonate toluene 2,2'-thiodiethanethiol	6450 5580 200	2500 8390 N/A	N/A N/A N/A	N/A 49 N/A	N/A N/A N/A

# Section 12. Ecological information

### **Toxicity**

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

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily
2,2'-thiodiethanethiol	-	-	Not readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	8.32	low

### Mobility in soil

Soil/water partition	
coefficient (Koc)	

: Not available.

United States Page: 12/15

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. 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	IATA
UN number	UN1133	UN1133	UN1133
UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES
Transport hazard class (es)	3	3	3
Packing group	111	Ш	ш
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	19994.8	Not applicable.	Not applicable.
RQ substances	(toluene)	Not applicable.	Not applicable.

# 14. Transport information

### Additional information

DOT	This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.
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.

Product name PR 1770 C 336 Part B

# **14. Transport information**

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

### **United States**

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

### SARA 302/304

**SARA 304 RQ** 

: 904521.8 lbs / 410652.9 kg [74303.4 gal / 281269.1 L]

**Composition/information on ingredients** 

		SARA 302 TPQ SARA 304 RQ		04 RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
phenol		500 / 10000	-	1000	-

### SARA 311/312

Classification	: FLAMMABLE LIQUIDS - Category 3
	ACUTE TOXICITY (dermal) - Category 4
	EYE IRRITATION - Category 2B
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	HNOC - Defatting irritant

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

Name	%	Classification
Ethanethiol, 2,2'-thiobis-, reaction products with reduced 1,1'-[methylenebis(oxy)]bis [2-chloroethane]-sodium sulfide (Na2 (Sx)-1,2,3-trichloropropane polymer	≥20 - <50	ACUTE TOXICITY (dermal) - Category 4 EYE IRRITATION - Category 2B
toluene	≥5.0 - <10	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - 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 2,2'-thiodiethanethiol	≥1.0 - ≤5.0 <1.0	CARCINOGENIČITY - Category 2 ACUTE TOXICITY (oral) - Category 3 SKIN SENSITIZATION - Category 1A

<u>SARA 313</u>

Chemical name	CAS number	<b>Concentration</b>
	United States	Page: 14/15

Date of issue 11 June 2021 Vers

Version 16

Product name PR 1770 C 336 Part B

# Section 15. Regulatory information

Supplier notification

: toluene

108-88-3 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

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

# Section 16. Other information

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

Health : 2 \* Flammability : 2 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.

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 : 2 Flammal Date of previous issue Organization that prepared the SDS	bility : 2 Instability : 0 : 4/6/2021 : EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

### Indicates information that has changed from previously issued version.

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