## **SAFETY DATA SHEET**



### Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of issue/Date of revision 1 September 2018 Version 2.01

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: DURETHANE DTM CURING AGENT
Product code	: 00348202
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
<u>Emergency telephone</u> number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 or + 52 55 5559 1588 (Mexico)
Technical Phone Number	: 888-977-4762

### **SECTION 2: Hazards identification**

Classification of the	: ACUTE TOXICITY (oral) - Category 5
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Danger

### Product name DURETHANE DTM CURING AGENT

### **SECTION 2: Hazards identification**

Hazard statements	:	H332 - Harmful if inhaled. H303 + H313 - May be harmful if swallowed or in contact with skin. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.
Precautionary statements		
Prevention	-	P280 - Wear protective gloves. P284 - Wear respiratory protection. P271 - Use only outdoors or in a well-ventilated area. P261 - Avoid breathing vapor. P272 - Contaminated work clothing should not be allowed out of the workplace.
Response	:	P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P301 + P312 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. P302 + P352 + P312 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Repeated exposure may lead to permanent respiratory disability. Moisture-sensitive material. Emits toxic fumes when heated.
See toxicological information	n (S	Section 11)

#### See toxicological information (Section 11)

### **SECTION 3: Composition/information on ingredients**

Substance/mixture	: Mixture
Product name	: DURETHANE DTM CURING AGENT
Other means of identification	: Not applicable.

Ingredient name	%	CAS number
✓examethylene diisocyanate, oligomers	≥90	28182-81-2
hexamethylene-di-isocyanate	<1.0	822-06-0

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.

### Product name DURETHANE DTM CURING AGENT

### **SECTION 4: First aid measures**

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	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.		
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>		
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>		

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

Potential acute health	<u>effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Skin contact	: May be harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.
Over-exposure signs/	symptoms

See toxicological information (Section 11)

Indication of immediate med	al attent	ion and special treatment needed, if necessary
Notes to physician		e of inhalation of decomposition products in a fire, symptoms may be delayed. posed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No spe	ecific treatment.
Protection of first-aiders	is susp mask o providi	ion shall be taken involving any personal risk or without suitable training. If it bected that fumes are still present, the rescuer should wear an appropriate or self-contained breathing apparatus. It may be dangerous to the person ng aid to give mouth-to-mouth resuscitation. Wash contaminated clothing ghly with water before removing it, or wear gloves.

### **SECTION 5: Firefighting measures**

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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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Unsuitable extinguishing media	: None known.
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Extinguishing media	

### Product name DURETHANE DTM CURING AGENT

### **SECTION 5: Firefighting measures**

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 : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel 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. If specialized clothing is required to deal with the spillage, take note of any For emergency responders : information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". **Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways. drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Methods and materials for containment and cleaning up **Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. **Special provisions** : 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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0.880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### Product name DURETHANE DTM CURING AGENT

### **SECTION 7: Handling and storage**

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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	:	Store between the following temperatures: 0 to $35^{\circ}$ C ( $32$ to $95^{\circ}$ 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. Precautions should be taken to minimize exposure to atmospheric humidity or water. $CO_2$ will be formed, which, in closed containers, could result in pressurization.

### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

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#### **Occupational exposure limits**

Ingredient name	Exposure limits	
Fexamethylene diisocyanate, oligomers	IPEL (PPG).	
	TWA: 0.5 mg/m <sup>3</sup>	
	STEL: 1 mg/m <sup>3</sup>	
hexamethylene-di-isocyanate	NOM-010-STPS-2014 (Mexico, 4/2016).	
, , , , , , , , , , , , , , , , , , ,	TWA: 0.005 ppm 8 hours.	

Key to abbreviations

= Ceiling Limit = Internal Permissible Exposure Limit IPEL

STEL	= Short term exposure limit
TIV	<ul> <li>Throphold Limit Value</li> </ul>

TLV Threshold Limit Value TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

**Recommended monitoring** : If this product contains ingredients with exposure limits, personal, workplace procedures 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.

### Product name DURETHANE DTM CURING AGENT

### 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 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. 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	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	1	butyl rubber
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	-	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	-	By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
Restrictions on use	:	Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

### **SECTION 9: Physical and chemical properties**

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Characteristic.
Odor threshold	: Not available.
Molecular weight	: Not applicable.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 166.11°C (331°F)
Material supports combustion.	: Yes.

### Product name DURETHANE DTM CURING AGENT

### **SECTION 9: Physical and chemical properties**

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Auto-ignition temperature	1	Not available.
<b>Decomposition temperature</b>	:	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Evaporation rate	1	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.17
Density(lbs / gal)	:	9.76
Solubility	:	Insoluble in the following materials: cold water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm <sup>2</sup> /s (>21 cSt)
Volatility	4	0% (v/v), 0% (w/w)
% Solid. (w/w)	1	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	: In a fire, hazardous decomposition products may be produced. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

### **SECTION 11: Toxicological information**

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Fexamethylene diisocyanate, oligomers	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2500 mg/kg	-
hexamethylene-di- isocyanate	LC50 Inhalation Dusts and mists	Rat	124 mg/m³	4 hours
	LC50 Inhalation Vapor	Rat	151 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	22 ppm	4 hours
	LD50 Dermal	Rabbit	0.57 g/kg	-
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### Product name DURETHANE DTM CURING AGENT

### **SECTION 11: Toxicological information**

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	LD50 Oral	Rat	0.71 g/kg	-
<b>Conclusion/Summary</b>	: There are no data avai	lable on the mixture	itself.	
Irritation/Corrosion				
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixture	itself.	
Eyes	: There are no data avai	lable on the mixture	itself.	
Respiratory	: There are no data avai	lable on the mixture	itself.	
Sensitization				
Conclusion/Summary				
Skin	: There are no data avai	lable on the mixture	itself.	
Respiratory	: There are no data avai	lable on the mixture	itself.	
Mutagenicity				
<b>Conclusion/Summary</b>	: There are no data avai	lable on the mixture	itself.	
<b>Carcinogenicity</b>				
<b>Conclusion/Summary</b>	: There are no data avai	lable on the mixture	itself.	
Reproductive toxicity				
<b>Conclusion/Summary</b>	: There are no data avai	lable on the mixture	itself.	
<b>Teratogenicity</b>				
<b>Conclusion/Summary</b>	: There are no data avai	lable on the mixture	itself.	
Specific target organ toxicity (single exposure)				

Name		Route of exposure	Target organs
Hexamethylene diisocyanate, oligomers	Category 3	Not applicable.	Respiratory tract irritation
hexamethylene-di-isocyanate	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### Target organs

: Contains material which may cause damage to the following organs: upper respiratory tract, skin.

#### **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	<ul> <li>Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> </ul>
Skin contact	: May be harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.
Over-exposure signs/syr	nptoms
Eye contact	: No specific data.

### Product name DURETHANE DTM CURING AGENT

### **SECTION 11: Toxicological information**

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Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effe	<u>cts</u>	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. 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 effects	:	There are no data available on the mixture itself.
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 effe		·
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity Mutagenicity Teratogenicity	:	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects Fertility effects	:	No known significant effects or critical hazards. No known significant effects or critical hazards.
Numerical measures of toxi	city	
Acute toxicity estimates		

Route	ATE value
Oral	2503.5 mg/kg
Dermal	2503.5 mg/kg
Inhalation (gases)	4506.3 ppm
Inhalation (vapors)	11.02 mg/l
Inhalation (dusts and mists)	1.502 mg/l

### Product name DURETHANE DTM CURING AGENT

### **SECTION 12: Ecological information**

Toxicity			
Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia - daphnia magna Fish - Danio rerio (zebra fish)	48 hours 96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓examethylene diisocyanate, oligomers	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Hexamethylene diisocyanate, oligomers	-	3.2	low
hexamethylene-di-isocyanate	1.08	-	low

#### Mobility in soil

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

### **SECTION 13: Disposal considerations**

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

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

### Product name DURETHANE DTM CURING AGENT

### **SECTION 14: Transport information**

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

Mexico	: 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.

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### **SECTION 15: Regulatory information**

#### <u>Mexico</u>

Classification Flammability : 1 Health : 3 Reactivity :

#### International regulations

Montreal Protocol (Annexes A, B, C, E) Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

#### Product name DURETHANE DTM CURING AGENT

### **SECTION 16: Other information**

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

Health : 3 \* Flammability : 1 Physical hazards : 0 (\*) - Chronic

effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. 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.

Date of previous issue Organization that prepared	5/ <b>21/2018</b> EHS	
the MSDS		
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification ar ATA = International Air Transport Association BC = International Air Transport Association BC = International Maritime Dangerous Goods .ogPow = logarithm of the octanol/water partition coeffic /ARPOL = International Convention for the Prevention 973 as modified by the Protocol of 1978. ("Marpol" = m JN = United Nations	cient of Pollution From Ships,

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

#### Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

#### **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.