# **SAFETY DATA SHEET**



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

Date of revision 5 June 2024

Version 13

Date of issue 5 June 2024

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

Product name	: DURETHANE MCZ Moisture Cure Zinc Red Compomnent A
Product code	: 00338267
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	f 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> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

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

Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 33.7% (oral), 69% (dermal), 63.2% (inhalation)</li> </ul>

#### **GHS label elements**

Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

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

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Hazard pictograms



Signal word	:	Danger
Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H313 - May be harmful in contact with skin.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 - May cause respiratory irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H350 - May cause cancer.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure. (respiratory system)</li> </ul>
Precautionary statements Prevention		D201 Obtain anapial instructions hafars use
Frevention		<ul> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P284 - Wear respiratory protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe vapor.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace.</li> </ul>
Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
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	:	Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. 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. 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
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### **SECTION 2: Hazards identification**

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 (Section 11)

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

Substance/mixture
Product name
Other means of
identification

: Mixture

: DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

: Not applicable.

Ingredient name	%	CAS number
socyanic acid, polymethylenepolyphenylene ester, polymer with	≥20 - ≤50	67815-87-6
1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol		
Solvent naphtha (petroleum), light aromatic	≥20 - ≤48	64742-95-6
1,2,4-trimethylbenzene	≥10 - ≤17	95-63-6
4,4'-methylenediphenyl diisocyanate	≥5.0 - ≤8.2	101-68-8
diiron trioxide	≥1.0 - ≤5.0	1309-37-1
Isocyanic acid, polymethylenepolyphenylene ester	≥1.0 - ≤5.0	9016-87-9
mesitylene	≥1.0 - ≤5.0	108-67-8
propylbenzene	≥1.0 - ≤5.0	103-65-1
1,2,3-trimethylbenzene	≥1.0 - ≤5.0	526-73-8
xylene	≤1.5	1330-20-7
4-isocyanatosulphonyltoluene	≥1.0 - ≤3.7	4083-64-1
methylenediphenyl diisocyanate	<1.0	26447-40-5
cumene	<1.0	98-82-8
ethylbenzene	<1.0	100-41-4

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**

#### **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

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

Potential acute health	<u>effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	<ul> <li>May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.</li> </ul>
Ingestion	: Can cause central nervous system (CNS) depression.
Over-exposure signs/	<u>symptoms</u>

See toxicological information (Section 11)

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### **SECTION 5: Firefighting 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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides Cyanate and isocyanate. hydrogen cyanide
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	tiv	e equipment and emergency procedures
For non-emergency personnel For emergency responders		No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the
		information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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.

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

Precautions for safe handling

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### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

### SECTION 7: Handling and storage

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	:	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 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. 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**

#### **Occupational exposure limits**

None. None. NOM-010-STPS-2014 (Mexico, 4/2016). Trimetil benceno, mezcla de Isómeros] TWA: 25 ppm 8 hours.
NOM-010-STPS-2014 (Mexico, 4/2016). Trimetil benceno, mezcla de Isómeros]
NOM-010-STPS-2014 (Mexico, 4/2016). Trimetil benceno, mezcla de Isómeros]
Trimetil benceno, mezcla de Isómeros]
I WA. 25 DDIII O HOUIS.
<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 0.005 ppm 8 hours.
NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 5 mg/m³ 8 hours. Form: Respirable
raction
None.
r

## SECTION 8: Exposure controls/personal protection

SECTION 8: Exposu	ire controls/personal p	rotection
mesitylene		NOM-010-STPS-2014 (Mexico, 4/2016). [Trimetil benceno, mezcla de Isómeros] TWA: 25 ppm 8 hours.
propylbenzene 1,2,3-trimethylbenzene		None. NOM-010-STPS-2014 (Mexico, 4/2016).
		[Trimetil benceno, mezcla de Isómeros] TWA: 25 ppm 8 hours.
xylene		NOM-010-STPS-2014 (Mexico, 4/2016). [Xileno, mezcla] STEL: 150 ppm 15 minutes.
		TWA: 100 ppm 8 hours.
4-isocyanatosulphonyltoluene methylenediphenyl diisocyanate		None. None.
cumene		NOM-010-STPS-2014 (Mexico, 4/2016).
ethylbenzene		TWA: 50 ppm 8 hours. NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
	Key to abbreviations	1
C = Ceiling Limit IPEL = Internal Permissible Exposu	ure Limit TLV TWA	= Threshold Limit Value
Consult local authorities for a	acceptable exposure limits.	5 5
Recommended monitoring procedures		priate monitoring standards. Reference to tho the standards for the determination of hazardous
Appropriate engineering controls	ventilation or other engineering contr contaminants below any recommend	Use process enclosures, local exhaust rols to keep worker exposure to airborne ded or statutory limits. The engineering controls t concentrations below any lower explosive on equipment.
Environmental exposure controls	they comply with the requirements o	rocess equipment should be checked to ensure f environmental protection legislation. In some jineering modifications to the process ce emissions to acceptable levels.
Individual protection measures	5	
	Wash hands, forearms and face tho eating, smoking and using the lavato Appropriate techniques should be us Contaminated work clothing should it	roughly after handling chemical products, before bry and at the end of the working period. Sed to remove potentially contaminated clothing. not be allowed out of the workplace. Wash g. Ensure that eyewash stations and safety a location.
	Chemical splash goggles.	
Skin protection Hand protection	be worn at all times when handling of this is necessary. Considering the p check during use that the gloves are should be noted that the time to brea	es complying with an approved standard should hemical products if a risk assessment indicates arameters specified by the glove manufacturer, still retaining their protective properties. It akthrough for any glove material may be
		urers. In the case of mixtures, consisting of me of the gloves cannot be accurately

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

Gloves	11	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.
Respiratory protection		Use an air-fed respirator unless a site-specific assessment determines that an air- fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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	:	Red.
Odor	:	Characteristic.
Odor threshold	:	Not available.
Molecular weight	4	Not applicable.
рН	4	Not applicable.
Melting point	4	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	1	Closed cup: 46.11°C (115°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Flammability	4	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	1.04
Density(lbs / gal)	1	8.68
		Media Result
Solubility(ies)	1	cold water Not soluble
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	1	56% (v/v), 46.813% (w/w)
% Solid. (w/w)	1	53.187

### **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	<ul> <li>In a fire, hazardous decomposition products may be produced.</li> <li>Refer to protective measures listed in sections 7 and 8.</li> </ul>
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	: Depending on conditions, decomposition products may include the following materials: Cyanate and isocyanate. carbon oxides nitrogen oxides sulfur oxides hydrogen cyanide metal oxide/oxides

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

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5 g/kg	-
4,4'-methylenediphenyl	LD50 Oral	Rat	9200 mg/kg	-
diisocyanate				
diiron trioxide	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	10 g/kg	-
Isocyanic acid,	LD50 Dermal	Rabbit	>9400 mg/kg	-
polymethylenepolyphenylene ester				
	LD50 Oral	Rat	49 g/kg	-
mesitylene	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
5	LD50 Oral	Rat	5000 mg/kg	-
propylbenzene	LD50 Oral	Rat	6040 mg/kg	-
1,2,3-trimethylbenzene	LD50 Oral	Rat	11.4 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
5	LD50 Oral	Rat	4.3 g/kg	-
4-isocyanatosulphonyltoluene	LD50 Oral	Rat	2234 mg/kg	-
methylenediphenyl	LD50 Dermal	Rabbit	>9400 mg/kg	-
diisocyanate				
-	LD50 Oral	Rat	>10000 mg/kg	-
cumene	LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12.3 g/kg	-
	LD50 Oral	Rat	2260 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

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

#### Irritation/Corrosion

Product/ingredient name	Result		S	pecies	Scor	e	Exposure	Observation
4'-methylenediphenyl	Skin - Irritant			abbit	_	•		-
diisocyanate	Skill - Illiani			abbit	-		-	
xylene	Skin - Mo	derate irri	tant R	abbit	-		24 hours 500 mg	-
<u>Conclusion/Summary</u> Skin	• There a	re no data	a available	on the mix	ture itsel	f		
Eyes			a available					
Respiratory			a available					
<u>Sensitization</u>								
Product/ingredient name	Route of exposure	S	pecies			Result	t	
₩,4'-methylenediphenyl diisocyanate	Respirator	y G	Guinea pig			Sensit	izing	
	skin		louse			Sensit	•	
methylenediphenyl diisocyanate	Respirator	y G	Guinea pig			Sensit	izing	
	skin	G	Guinea pig			Sensitizing		
Conclusion/Summary								
Skin	: There a	re no data	a available	on the mix	ture itsel	f.		
Respiratory	: There a	re no data	a available	on the mix	ture itsel	f.		
<u>Mutagenicity</u>								
Conclusion/Summary	: There a	re no data	a available	on the mix	ture itsel	f.		
Carcinogenicity								
Product/ingredient name	Result			Species		Dose	E	xposure
4,4'-methylenediphenyl diisocyanate	Positive - I	nhalation	- TC	Rat		0 to 6	•	: years; 5 days er week
Conclusion/Summary	: There a	re no data	a available	on the mix	ture itsel	f.		
<b>Classification</b>								
Product/ingredient name	OSHA	IARC	NTP					
4'-methylenediphenyl								
	-	3	-					
diisocyanate diiron trioxide	-	3	-					
diisocyanate	-		- -					
diisocyanate diiron trioxide Isocyanic acid, polymethylenepolyphenylene	-	3 3 3	-					
diisocyanate diiron trioxide Isocyanic acid, polymethylenepolyphenylene ester	-	3 3	-	ably anticip	ated to b	be a hur	nan carcinoge	en.

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.

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

#### **Teratogenicity**

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation
4,4'-methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
Isocyanic acid, polymethylenepolyphenylene ester	Category 3	-	Respiratory tract irritation
mesitylene	Category 3	-	Respiratory tract irritation
propylbenzene	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
4-isocyanatosulphonyltoluene	Category 3	-	Respiratory tract irritation
methylenediphenyl diisocyanate	Category 3	-	Respiratory tract irritation
cumene	Category 3	-	Respiratory tract irritation

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

Name	Category	Route of exposure	Target organs
4,4'-methylenediphenyl diisocyanate Isocyanic acid, polymethylenepolyphenylene ester methylenediphenyl diisocyanate cumene	Category 2 Category 2 Category 2 Category 2	inhalation inhalation - -	respiratory system - - -
ethylbenzene	Category 2	-	hearing organs

Target organs

 Contains material which causes damage to the following organs: brain, central nervous system (CNS).
 Contains material which may cause damage to the following organs: blood, kidneys,

lungs, the nervous system, liver, upper respiratory tract, skin, eye, lens or cornea.

Aspiration hazard

Name	Result
Solvent naphtha (petroleum), light aromatic	ASPIRATION HAZARD - Category 1
propylbenzene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
cumene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

## SECTION 11: Toxicological information

Skin contact	1	May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	:	Can cause central nervous system (CNS) depression.
Over-exposure signs/sympto	m	<u>è</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	1	No specific data.
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. 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. 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Short term exposure		
Potential immediate	:	There are no data available on the mixture itself.
effects	1.1	There are no data available on the mixture itself.
Potential delayed effects	÷.,	
	÷.	
Potential delayed effects		There are no data available on the mixture itself.

#### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

### **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	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### 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/l)
VRETHANE MCZ Moisture Cure Zinc Red	16414.9	4042.7	N/A	24.8	3.0
Compomnent A Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5
4,4'-methylenediphenyl diisocyanate	9200	N/A	N/A	11	N/A
diiron trioxide	10000	N/A	N/A	N/A	N/A
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5
mesitylene	5000	N/A	N/A	24	N/A
propylbenzene	6040	N/A	N/A	N/A	N/A
1,2,3-trimethylbenzene	11400	N/A	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-isocyanatosulphonyltoluene	2234	N/A	N/A	N/A	N/A
methylenediphenyl diisocyanate	N/A	N/A	N/A	11	1.5
cumene	2260	12300	N/A	39	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5

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

#### **Toxicity**

			1
Product/ingredient name	Result	Species	Exposure
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
diiron trioxide methylenediphenyl diisocyanate	Acute EC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Fish	48 hours 96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
ethylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
xylene ethylbenzene	-		-		Readily Readily

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#### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

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

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
1,2,4-trimethylbenzene	3.63	120.23	Low	
4,4'-methylenediphenyl diisocyanate	4.51	-	High	
mesitylene	3.42	186.21	Low	
propylbenzene	3.69	-	Low	
1,2,3-trimethylbenzene	3.66	194.98	Low	
xylene	3.12	7.4 to 18.5	Low	
methylenediphenyl diisocyanate	4.51	-	High	
cumene	3.55	35.48	Low	
ethylbenzene	3.6	79.43	Low	

#### Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

### **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 nonrecyclable 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

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

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
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#### Date of issue 5 June 2024

### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

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

Packing group		III	
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs) RQ substances	Not applicable. Not applicable.	Not applicable. Not applicable.	Not applicable. Not applicable.

Additional in	nformation
Mexico	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ .
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# 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**

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

Classification

Flammability : 2 Health : 3 Reactivity : 1

#### International regulations

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

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

Health : 3 \* Flammability : 2 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. 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.

#### Product name DURETHANE MCZ Moisture Cure Zinc Red Compomnent A

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

Date of previous issue	: 10/21/2023
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

#### 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.