Revision Date: 09-03-2015 Product Code: 70620

### 1. IDENTIFICATION

Product Name PERMATHANE FR BASECOAT DARK GRAY

Product Code 70620 Document ID G70620 Revision Number 2

Prior Version Date 06-08-2015
Intended Use Roof Coating

Restrictions On Use For Industrial Use Only Chemical Family Urethane Coating

Chemical Manufacturer / Importer NEOGARD® - a Division of JONES-BLAIR® Company, LLC

2728 Empire Central Dallas, TX 75235 1-214-353-1600

Emergency Telephone Number: ChemTrec Center 1-800-424-9300

International: 703-527-3887

## 2. HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Hazard Pictograms









GHS Classification Serious Eye Damage/Eye Irritation Category 1

Respiratory Sensitisation Category 1A

Skin Sensitisation Category 1

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure

Category 1

Skin Corrosion/Irritation Category 2 Carcinogenicity Category 2 Flammable Liquid Category 3

Acute Toxicity - Inhalation Vapour Category 3

Signal Word Danger

**Hazard Statements** Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye damage. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Keep away from heat, sparks, open flames

and hot surfaces. No smoking. Ground/bond container and receiving

equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust, fume, mist, vapours or spray. Wash thoroughly

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after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and face protection. Use personal protective equipment as required.

In case of inadequate ventilation wear respiratory protection.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a POISON CENTER or physician. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray for

extinction.

Store locked up. Store in a cool, well-ventilated place. Keep container tightly

closed.

Disposal Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazards Not Otherwise** 

Not applicable

Classified (HNOC)

### **Additional Information**

Not applicable

Response

Storage

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Component	CAS#	<u>%</u>	
Polyisocyanate Resin	9057-91-4	10 - 30	
Stoddard solvent	8052-41-3	3 - 7	
Oxazolidine Hardener	140921-24-0	3 - 7	
Butyl carbitol acetate	124-17-4	3 - 7	
Quartz (Silica-Crystalline)	14808-60-7	1 - 5	
Fumed silica	112945-52-5	1 - 5	
Titanium dioxide	13463-67-7	1 - 5	
(d)-Limonene	5989-27-5	0.5 - 1.5	
Toluene diisocyanate	26471-62-5	0.1 - 1	
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	0.1 - 1	
Carbon black	1333-86-4	0.1 - 1	
Diphenylmethane-2,4'-diisocyanate	5873-54-1	0.1 - 1	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

### **4. FIRST-AID MEASURES**

Inhalation Remove to fresh air. If breathing is difficult, have a trained individual administer

oxygen.

**Eye Contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention immediately.

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Wash with soap and water. Remove contaminated clothing and launder. Get medical

attention if irritation develops or persists. Thoroughly wash or discard clothing and

shoes before reuse.

Ingestion No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if

symptoms develop. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the

lungs potentially causing chemical pneumonitis that may be fatal.

**Most Important Acute Symptoms** 

and Effects

**Skin Contact** 

Not Available

**Most Important Delayed Symptoms** 

and Effects

Not Available

Special treatment needed:

No additional first aid information available

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

**Unsuitable Extinguishing Media** Fire and/or Explosion Hazards

No data available

Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash

back. Container may explode in heat of fire.

**Hazardous Combustion Products** 

Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen containing gases, Hydrocarbons, Toxic fumes, Toxic gases,

Isocyanates, Isocyanic Acid

**Special Protective Equipment and Precautions for Fire-Fighters** 

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the

Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**  Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section VIII of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

**Methods and Material for Containment** and Cleaning Up

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Dike with suitable absorbent material. Gather and store in a sealed container pending disposal. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

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7. HANDLING AND STORAGE

Precautions for Safe Handling Toxic or severely irritating material. Avoid contacting and avoid

breathing the material. Use only in a well ventilated area. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get in eyes, on skin and clothing. Wash

thoroughly after handling.

Conditions for Safe Storage Store in a cool dry place. Keep container(s) closed. Keep away from

sources of ignition.

Materials to Avoid/Chemical

Incompatibility

Oxidizing agents, Metals, Acids, Amines, Caustics (bases, alkalis),

Water, Alcohols

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Stoddard solvent	500 ppm TWA; 2900 mg/m³ TWA	100 ppm TWA; 572 mg/m³ TWA	
Quartz (Silica-Crystalline)	see Table Z-3	0.05 mg/m³ TWA (respirable fraction)	
Fumed Silica (Particles not otherwise regulated)	50 mppcf (15mg/m³) TWA Total Dust; 15 mppcf (5mg/m³) TWA Respirable fraction		
Titanium dioxide	15 mg/m³ TWA (total dust)	10 mg/m³ TWA	
Toluene diisocyanate		0.005 ppm TWA	0.02 ppm
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	

Appropriate

Local exhaust ventilation or other engineering controls may be required when handling or using this product to avoid overexposure. Engineering controls must be designed to

meet the OSHA chemical specific standard in 29 CFR 1910.

Respiratory Protection General or local exhaust ventilation is the preferred means of protection. In cases where

ventilation is inadequate, respiratory protection may be required to avoid overexposure.

Follow respirator manufacturer's directions for respirator use.

**Eye Protection** Wear safety glasses with side shields when handling this product. Wear additional eye

protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash

station available.

**Skin Protection** Avoid all skin contact by covering as much of the exposed skin area as possible with

appropriate clothing to prevent skin contact. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Clothing suitable to

prevent skin contact.

General Hygiene

Conditions

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get in eyes, on skin and clothing. Wash thoroughly after

handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical State Liquid Color Grey

Odor Hydrocarbon
Odor Threshold
pH No data available
No data available

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Melting Point/Freezing Point (F/℃) Initial Boiling Point and Boiling Range

No data available / No data available

 Low (♥)
 350.0

 High (♥)
 456.0

 Flash Point (♥/℃)
 108 / 42

 Evaporation Rate
 0.05

Flammability (solid, gas) No data available

Upper Flammable/Explosive Limit 10.7 Lower Flammable/Explosive Limit 0.8

 Vapor Pressure
 68°F 0.52 MM HG

 Vapor Density
 7.00 (air = 1)

 Relative Density
 2.400

Solubility in Water Reacts slowly with water.

Partition coefficient: n-octanol/water
Auto-ignition Temperature

Decomposition Temperature:

Viscosity

No data available
No data available
105 - 120 KU

Volatiles, % by volume 23.24 Volatiles, % by weight 15.41

Volatile Organic Chemicals (g/L)

(Regulatory, Calculated) 197.43 (Actual, Calculated) 197.40

**Density** 10.63 - 10.83 lbs./Gal

#### 10. STABILITY AND REACTIVITY

**Chemical stability** Stable under normal conditions.

Possibility of Hazardous Reactions No data available

Conditions to Avoid Temperatures above flash point in combination with sparks,

open flames, or other sources of ignition. Contamination.

Contact with water.

**Incompatible Materials** Oxidizing agents, Metals, Acids, Amines, Caustics (bases,

alkalis), Water, Alcohols

Hazardous Decomposition Products Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen

containing gases, Hydrocarbons, Toxic fumes, Toxic gases,

Hydrogen chloride

### 11. TOXICOLOGICAL INFORMATION

Routes of Exposure Eye contact

Inhalation Skin contact Ingestion

## Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation Inhalation of dusts produced during cutting, grinding or sanding of this

product may cause irritation of the respiratory tract.

Inhalation Toxicity Vapor harmful. May affect the brain or nervous system causing dizziness,

headache or nausea.

**Skin Contact**Can cause moderate skin irritation. May cause allergic skin reaction.

**Skin Absorption** May be harmful if absorbed through skin.

**Eve Contact** Causes eve irritation.

Ingestion Toxicity Harmful if swallowed. Aspiration of material into the lungs can cause

chemical pneumonitis which can be fatal.

Long-Term (Chronic) Health Effects

Carcinogenicity Cancer hazard: Contains Crystalline Silica, which can cause cancer. Risk of

cancer depends on duration and level of exposure to dust generated from

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sanding surfaces or spray mists.

Contains Titanium Dioxide which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence with respect to humans and sufficient evidence in experimental animals. Possible cancer hazard. Contains toluene diisocyanate which may cause cancer based on animal data. (Risk of cancer depends on duration and level of exposure.)

Possible cancer hazard. Contains carbon black which may cause cancer based on animal data. (Risk of cancer depends on duration and level of

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system

damage. Intentional misuse by deliberately concentrating and inhaling the

contents may be harmful or fatal. Overexposure may cause lung damage.

Prolonged contact may cause an allergic skin reaction.

**Product Toxicology Data** 

Inhalation

**Skin Contact** 

**Oral Acute Toxicity Estimate (ATE)** 2,487.38 mg/kg **Dermal Acute Toxicity Estimate (ATE)** 6,308.43 mg/kg

**Component Toxicology Data** 

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 1,3-diisocyanatomethylbenzene and alphahydro- omega hydroxypoly[oxy(methyl-1,2-	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
ethanediyl)]	Oral I DEO Dat : 15 000	Dormal I DEO Dabbit	Inhalation LC50 Rat >
Stoddard solvent	Oral LD50 Rat > 15,000 mg/kg	Dermal LD50 Rabbit > 3400 mg/kg	13.10 mg/L
Butyl carbitol acetate	Oral LD50 Rat 6500 mg/kg	Dermal LD50 Rabbit 14,500 mg/kg	Inhalation LC50 (4h) Rat 72.50 mg/L
Quartz	Oral LD50 Rat > 22,500 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Fumed silica	Oral LD50 Rat > 1000 mg/kg		
Titanium dioxide	Oral LD50 Rat > 25,000 mg/kg	Dermal LD50 Rabbit > 10,000 mg/kg	Inhalation LC50 (4h) Rat > 6.82 mg/L
(d)-Limonene	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	
Toluene diisocyanate	Oral LD50 Rat 6170 mg/kg	Dermal LD50 Rabbit > 16,000 mg/kg	Inhalation LC50 (4h) Rat 0.10 mg/L
Carbon black	Oral LD50 Rat > 8000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	

## **Carcinogen Information**

Chemical Name	IARC Carcinogen	OSHA Carcinogen	NTP Carcinogen
Quartz	1		1
Titanium dioxide	2B		
Toluene diisocyanate	2B		2
Carbon black	2B		

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and** terrestrial, where available) No data available

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Mobility in soil No data available

### 13. DISPOSAL CONSIDERATIONS

Safe Handling of Waste Refer to other sections of this SDS to determine the toxicity and physical

characteristics of the material to determine the proper waste

identification and disposal in compliance with applicable regulations.

#### 14. TRANSPORT INFORMATION

This section provides basic shipping classification information and does not contain all regulatory transportation details. Refer to all applicable regulations for domestic, international, air, vessel and ground transportation requirements and restrictions.

DOT Basic Description: Paint
Hazard Class: 3
UN Number: UN1263
Packing Group: III

Other: Not regulated for non-bulk domestic ground shipments for packaging of 450 liters (119

gallons) or less (DOT 49CFR 173.150(f)).

IATA Air Shipping Name: Paint IATA Hazard Class: 3
IATA UN Number: UN12

IATA UN Number: UN1263
IATA Packing Group: III

IMO Shipping Name:PaintIMO Hazard Class:3IMO UN Number:UN1263IMO Packing Group:III

Marine Pollutant: N

#### **15. REGULATORY INFORMATION**

**TSCA Status** All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements.

## **Regulated Components**

SARA EHS Chemicals	<u>CAS #</u>	<u>%</u>
Toluene Diisocyanate	26471-62-5	0.1 - 1
05D01.4		

**CERCLA** 

Toluene Diisocyanate 26471-62-5 0.1 - 1

**SARA 313** 

2-(2-Butoxyethoxy)ethyl acetate 124-17-4 3 - 7 Toluene diisocyanate (mixed isomers) 26471-62-5 0.1 - 1

SARA 311/312

Health (Acute): Y
Health (chronic): Y
Fire (Flammable): Y
Pressure: N
Reactivity: Y

#### U. S. State Regulations:

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### California Prop 65 Chemicals

Cancer	CAS#	<u>%</u>
Crystalline Silica	14808-60-7	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Toluene Diisocyanate	26471-62-5	0.1 - 1
Carbon Black	1333-86-4	0.1 - 1
Cumene	98-82-8	0.01 - 0.1
Benzene	71-43-2	0.001- 0.01
Arsenic	7440-38-2	< 10 ppb
Lead	7439-92-1	< 10 ppb
Nickel	7440-02-0	< 10 ppb
Reproductive		
Methyl Alcohol	67-56-1	0.001- 0.01
Benzene	71-43-2	0.001- 0.01
Lead	7439-92-1	< 10 ppb

## **Canadian Regulations:**

CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances

List.

WHMIS Hazard Class: B3 D2A

### **16. OTHER INFORMATION**

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This SDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To the best of our knowledge the information contained herein is accurate. Determination of safe handling, application and use of this material is the responsibility of the end user. This

information is furnished without warranty, expressed or implied.