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#### 1. IDENTIFICATION

Product Name PERMATHANE FR BASECOAT DARK GRAY

Product Code 70620-CA Document ID G70620-CA

Revision Number 1 Prior Version Date None

Intended Use Roof Coating, Urethane Restrictions On Use For Industrial Use Only 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 Respiratory Sensitisation Category 1A

Skin Sensitisation Category 1 Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2

Carcinogenicity Category 2

Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure

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 irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause 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. 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.

#### Response

IF ON SKÍN (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. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: 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.

Storage 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 Classified (HNOC)

Not applicable

### **Additional Information**

Not applicable

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Component	CAS#	<u>%</u>	
Polyisocyanate Resin	9057-91-4	10 - 30	
Parachlorobenzotrifluoride (PCBTF)	98-56-6	7 - 13	
Quartz (Silica-Crystalline)	14808-60-7	1 - 5	
Acetone	67-64-1	1 - 5	
Fumed silica	112945-52-5	1 - 5	
Titanium dioxide	13463-67-7	1 - 5	
Toluene diisocyanate	26471-62-5	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. If breathing difficulty persists or occurs later, consult a physician and have

MŠDS available.

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

Get medical attention immediately.

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

attention if irritation develops or persists.

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

symptoms develop. Provide medical care provider with this MSDS.

Most Important Acute Symptoms Not Available

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and Effects

**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, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and minimize fire damage.

**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** 

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

Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen containing gases, Toxic fumes, Isocyanates, Isocyanic Acid

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.

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.

### **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.

#### 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, Acids, Metals, Amines, Caustics (bases, alkalis),

Water, Alcohols

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### **Exposure Limits**

Chemical Component	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL
Quartz (Silica-Crystalline)	see Table Z-3	0.05 mg/m³ TWA (respirable fraction)	
Acetone	1000 ppm TWA; 2400 mg/m³ TWA	500 ppm TWA; 1188 mg/m³ TWA	750 ppm STEL; 1782 mg/m³ STEL
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

Appropriate Engineering Controls

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. For poorly ventilated areas or during spray application use NIOSH approved supplied air respirator unless air monitoring demonstrates vapor/mist levels below applicable limits. When monomeric isocyanate concentrations are below 0.05 ppm (10 times the 8 hour TWA exposure limit), an appropriate combination organic vapor and particulate respirator (NIOSH approved) may be appropriate. An end-of-service-life Indicator (ESLI) or a change schedule is mandatory.

**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

No data available / No data available

handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical State Liquid Color Grey

OdorNaphthalene-LikeOdor ThresholdNo data availablepHNo data available

Melting Point/Freezing Point (°F/°C)
Initial Boiling Point and Boiling Range

Low (°F) 276.8 High (°F) 280.4 Flash Point (°F/°C) 78 / 26 Evaporation Rate 0.90

Flammability (solid, gas) No data available

Upper Flammable/Explosive Limit 10.5

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 Lower Flammable/Explosive Limit
 0.9

 Vapor Pressure
 5.30

 Vapor Density
 6.20 (air = 1)

 Relative Density
 2.400

**Solubility in Water** Negligible; 0-1% Reacts slowly with water.

Partition coefficient: n-octanol/waterNo data availableAuto-ignition TemperatureNo data availableDecomposition Temperature:No data availableViscosity100 - 115 KU

Volatiles, % by volume 22.47 Volatiles, % by weight 18.44

Volatile Organic Chemicals (g/L)

(Regulatory, Calculated) 38.40 (Actual, Calculated) 31.18

**Density** 11.20 - 11.40 lbs./Gal

#### **10. STABILITY AND REACTIVITY**

Chemical stability Stable under normal conditions.

Possibility of Hazardous Reactions No data available

Conditions to Avoid Sparks, open flame, other ignition sources, and elevated

temperatures. Elevated temperatures. Contamination. Contact

with water.

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

alkalis), Water, Alcohols

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

containing gases, Toxic fumes, Hydrogen chloride

#### 11. TOXICOLOGICAL INFORMATION

Routes of Exposure Inhalation

Eye contact Ingestion Skin contact

### 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 Causes skin irritation. Sensitizer. Avoid exposure. If sensitized, repeated

exposures will result in irritation, reddening, and rashes even for very low

exposures.

**Eye Contact Ingestion Toxicity**Causes eye irritation.
Harmful if swallowed.

### **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

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.)

**Inhalation** Isocyanate vapors or mist at concentrations above the TLV can irritate the

mucous membranes in the respiratory tract causing runny nose, sore throat,

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coughing, chest discomfort, shortness of breath and reduced lung function. Exposure well above the TLV may lead to generally reversible bronchitis, bronchial spasm and pulmonary edema. Repeated overexposure causes sensitization in some individuals resulting in asthma-like symptoms on subsequent exposures below the TLV.

Persons with preexisting bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as an asthma attack.

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** 

**Skin Contact** 

Oral Acute Toxicity Estimate (ATE) 2,780.01 mg/kg
Dermal Acute Toxicity Estimate (ATE) 4,837.25 mg/kg

#### **Component Toxicology Data**

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
1,3-Propanediol, 2-ethyl-2-	Oral LD50 Rat > 5000	Dermal LD50 Rabbit >	Inhalation LC50 (4h) Rat >
(hydroxymethyl)-, polymer with	mg/kg	5000 mg/kg	20.00 mg/L
1,3-diisocyanatomethylbenzene			
and alphahydro- omega			
hydroxypoly[oxy(methyl-1,2-			
ethanediyl)]			
Parachlorobenzotrifluoride	Oral LD50 Rat 11,500		Inhalation LC50 Rat 20.00
(PCBTF)	mg/kg		g/m3
Quartz	Oral LD50 Rat > 22,500	Dermal LD50 Rabbit >	Inhalation LC50 (4h) Rat >
Quartz	mg/kg	2000 mg/kg	20.00 mg/L
Acetone	Oral LD50 Rat 5800 mg/kg	Dermal LD50 Rabbit > 16	Inhalation LC50 (4h) Rat
Acetone		g/kg	76.00 mg/L
Fumed silica	Oral LD50 Rat > 1000		
	mg/kg		
Titanium dioxide	Oral LD50 Rat > 25,000	Dermal LD50 Rabbit >	Inhalation LC50 (4h) Rat >
	mg/kg	10,000 mg/kg	6.82 mg/L
Talvana diigaayanata	Oral LD50 Rat 6170 mg/kg	Dermal LD50 Rabbit >	Inhalation LC50 (4h) Rat
Toluene diisocyanate		16,000 mg/kg	0.10 mg/L

#### **Carcinogen Information**

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

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available)

No data available

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.

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#### 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: This product qualifies for a limited quantity exception per CFR173.150(b)(3) for inner

containers <= 1.3 gallons (5L) and total gross package wt <= 66 lbs (30kg).

Marine Pollutant: No

#### 15. REGULATORY INFORMATION

TSCA Status All components

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	CAS#	<u>%</u>
Toluene Diisocyanate	26471-62-5	0.1 - 1
CERCLA		
Acetone	67-64-1	1 - 5
Toluene Diisocyanate	26471-62-5	0.1 - 1
SARA 313		
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:**

#### California Prop 65 Chemicals

Cancer	<u>CAS #</u>	<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	0.01 - 0.1
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

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**Canadian Regulations**:

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

List.

WHMIS Hazard Class: B2 D2A

#### **16. OTHER INFORMATION**

Revision Date Disclaimer

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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.