Revision Date: 02-15-2011 Product Code: 7430

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: URETHANE DECK COATING GRAY

Product Code: 7430 Document ID: M7430

NEOGARD® - a Division of JONES-BLAIR® Company Company:

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

Revision Number: 3

Prior Version Date: 11-25-2009

Chemical Family: Urethane Floor Coating

Intended use: Industrial Maintanance Floor TopCoat Urethane

Emergency Contact: ChemTrec Center **Emergency Phone:** 1-800-424-9300 International: 703-527-3887

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER!

Combustible liquid and vapor.

Causes skin irritation. Causes eye irritation. Harmful if inhaled.

Vapor and spray mist harmful. Causes nose and throat irritation. Overexposure may cause lung damage. May cause allergic skin and respiratory reaction. Effects may

be permanent.

Routes of Entry: Inhalation

Eye contact Ingestion Skin contact

Skin absorption

Target Organs Potentially Affected by Exposure:

Respiratory Tract

Central nervous system

Lungs

Eves

Skin

Blood

Kidneys

Liver

Medical Conditions Aggravated by Exposure: Skin allergies.

Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapor or spray mist.

- Respiratory disorders, including but not limited to asthma and bronchitis.
- Eye irritation when/if dust or spray mist is generated.
- Lung disease
- Eye disorders.
- Liver disease
- Kidney disease

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Inhalation of dusts produced during cutting, grinding or sanding of this product may cause

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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. Sensitizer. Avoid exposure. If sensitized, repeated

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

May cause allergic skin reaction.

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

Causes eve irritation. **Eve Contact: Ingestion Toxicity:** 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

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.)

Reproductive and **Developmental Toxicity:**

Xylene may cause adverse reproductive and/or developmental effects. Pregnant women may be at an increased risk from exposure.

Xylene has been shown to be positive in mutagenicity assays.

Mutagenicity: Inhalation:

Isocvanate vapors or mist at concentrations above the TLV can irritate the mucous membranes in the respiratory tract causing runny nose, sore throat, 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.

Overexposure may cause lung damage.

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.

Skin Contact: Prolonged contact may cause an allergic skin reaction.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS#
Polyisocyanate Resin	40 - 60	9057-91-4
Limestone	5 - 10	1317-65-3
Quartz (Silica-Crystalline)	5 - 10	14808-60-7
Light aromatic solvent naphtha	5 - 10	64742-95-6
Titanium dioxide	3 - 7	13463-67-7
1,2,4-Trimethylbenzene	1 - 5	95-63-6
Butyl carbitol acetate	1 - 5	124-17-4
Xylene	0.5 - 1.5	1330-20-7
(d)-Limonene	0.5 - 1.5	5989-27-5
Toluene diisocyanate	0.1 - 1	26471-62-5

IV. FIRST-AID MEASURES

Eyes:

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

breathing difficulty persists or occurs later, consult a physician and have MSDS available. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention immediately.

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Skin Contact: 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: If swallowed, do not induce vomiting. Get medical attention immediately.

V. FIRE FIGHTING MEASURES

Fire and/or Explosion Hazards:

Flammability Summary: Combustible liquid and vapor.

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. 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. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an

explosion that may lead to injury or death.

Fire Fighting Methods and Protection: 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 surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen

containing gases, Toxic fumes, Toxic gases, Sulfur containing gases,

Hydrocarbons, Isocyanates, Isocyanic Acid

Flash Point (°F/°C): 113 / 45

Lower Flammable/Explosive Limit, % in air: 1.0 Upper Flammable/Explosive Limit, % in air: 7.0

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic.

Follow personal protective equipment recommendations found in Section VIII of this MSDS. 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 for Clean-up: Shut off ignition sources; including electrical equipment and flames. Do

not allow smoking in the area. 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.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions:

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. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. Ground and bond containers when transferring material. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

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Storage Technical Measures and Conditions: Store in a cool dry place. Keep container(s) closed. Keep

away from sources of ignition.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: 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 chemically resistant 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. Wear chemical resistant gloves.

Control Parameters:

Chemical Name Limestone	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA 15 mg/m³ (total dust); 5 mg/m³ (respirable fraction)
Quartz (Silica-Crystalline)	0.05 mg/m³ TWA (respirable fraction)		see Table Z-3
Titanium dioxide	10 mg/m³ TWA		15 mg/m³ TWA (total dust)
1,2,4-Trimethylbenzene	25ppm; 123mg/m ³ TWA		,
Xylene	100 ppm TWA; 434 mg/m³ TWA	150 ppm STEL; 651 mg/m3 STEL	100 ppm TWA; 435 mg/m ³ TWA
Toluene diisocyanate	0.005 ppm TWA	0.02 ppm	

IX. PHYSICAL AND CHEMICAL PROPERTIES

 Color:
 Grey

 Physical State:
 Liquid

 Boiling Point - Low (°F):
 308.0

 Boiling Point - High (°F):
 335.0

 Vapor Density:
 4.15 (air = 1)

Vapor Pressure: 3.00 (mm Hg @ 68° F / 20° C)

VOC (g/l) (Regulatory, Calculated): 216.00 (Actual, Calculated): 216.00

Solubility in Water: Reacts slowly with water.

Octanol/Water Partition Coefficient: Not Available Volatiles, % by Volume (Calculated): 24.53

Volatiles, % by Volume (Calculated): 24.53 **Volatiles, % by weight** (Calculated): 17.41

Densty: 10.22 - 10.42 lbs./Gal.

Physical and Chemical Properties are calculated target or range values for single packaged items and do not represent compliance values for multi-component (mixed) systems.

X. STABILITY AND REACTIVITY

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Stability: Stable under normal conditions.

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

flames, or other sources of ignition. Contamination. Contact with

water.

Materials to Avoid/Chemical Incompatibility: Oxidizing agents, Amines, Caustics (bases, alkalis), Water,

Alcohols

Polymerization: Contact with moisture, other materials that react with isocyanates

or temperatures above 350° F may cause polymerization.

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

containing gases, Toxic fumes, Toxic gases, Sulfur containing

gases, Hydrogen chloride

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data: Chemical Name Quartz	CAS Number 14808-60-7	LD50/LC50 Oral LD50 Rat > 22500 mg/kg
Light aromatic solvent naphtha	64742-95-6	Oral LD50 Rat 4 - 8 ml/kg Dermal LD50 Rat > 2 g/kg Inhalation LC50 (4h) Rat 6.2 - 10.4 mg/L
Titanium dioxide	13463-67-7	Oral LD50 Rat > 25 g/kg Dermal LD50 Rabbit > 10 g/kg Inhalation LC50 (4h) Rat > 6.82 mg/L
1,2,4-Trimethylbenzene	95-63-6	Oral LD50 Rat 5 g/kg
Butyl carbitol acetate	124-17-4	Inhalation LC50 (18h) Rat 18 G/M3 Oral LD50 Rat 6960 - 11960 mg/kg Dermal LD50 Rabbit 5390 - 14500 mg/kg
Xylene	1330-20-7	Oral LD50 Rat 4300 mg/kg
Toluene diisocyanate	26471-62-5	Dermal LD50 Rabbit > 9400 mg/kg Oral LD50 Rat 4130 - 5110 mg/kg Inhalation LC50 (1h) Rat 66 ppm

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Chemical Name	CAS Number	IARC	NTP	OSHA
Quartz	14808-60-7	1	1	
Titanium dioxide	13463-67-7	2B		
Toluene diisocyanate	26471-62-5	2B	2	

XII. ECOLOGICAL INFORMATION

Toxicity data, if available, are listed below.

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods:

Refer to other sections of this MSDS to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

XIV. TRANSPORTATION 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.

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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: UN1263
IATA Packing Group: III

XV. REGULATORY INFORMATION

United States Federal Regulations:

SARA EHS Chemicals

TSCA Status All components of this product are either listed on the TSCA Inventory; or, are not subject to the

%

CAS#

inventory notification requirements.

Toluene Diisocyanate	26 471-62- 5	0.1 - 1
CERCLA Xylene Toluene Diisocyanate	1330-20-7 26471-62-5	0.5 - 1.5 0.1 - 1
SARA 313 1,2,4-Trimethylbenzene 2-(2-Butoxyethoxy)ethyl acetate Xylene (mixed isomers) Toluene diisocyanate (mixed isomers)	95-63-6 124-17-4 1330-20-7 26471-62-5	1 - 5 1 - 5 0.5 - 1.5 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	CAS#	<u>%</u>
Crystalline Silica	14 808-60 -7	5 - 10
Toluene Diisocyanate	26471-62-5	0.1 - 1
Ethyl Benzene	100-41-4	0.01 - 0.1
Benzene	71-43-2	< 1 ppm
Reproductive		
Methyl Alcohol	67-56-1	0.001- 0.01
Toluene	108-88-3	0.001- 0.01
Benzene	71-43-2	< 1 ppm

Canadian Regulations:

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

List.

WHMIS Hazard Class: B3 D2A

XVI. ADDITIONAL INFORMATION

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Prepared By:

Regulatory Department
This MSDS has been prepared in accordance with the OSHA Hazard Communication Disclaimer:

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.

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