

Safety Data Sheet

Revision Date: 06-15-2015
Product Code: 7430-CA

1. IDENTIFICATION

Product Name	URETHANE II HIGH BUILD GRAY
Product Code	7430-CA
Document ID	G7430-CA
Revision Number	1
Prior Version Date	None
Intended Use	Industrial Maintenance Floor TopCoat Urethane
Restrictions On Use	For Industrial Use Only
Chemical Family	Urethane Floor 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
Acute Toxicity - Inhalation Vapour Category 2
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Carcinogenicity Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Flammable Liquid Category 3
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Acute Toxicity - Inhalation Dust / Mist Category 4
Acute Toxicity - Oral Category 4

Signal Word

Danger

Hazard Statements

Flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

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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 after handling. Do not 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. Wear respiratory protection.

Response

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. 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. Rinse mouth. 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. Store locked up. Store in a cool, well-ventilated place. Keep container tightly closed.

Storage

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

<u>Chemical Component</u>	<u>CAS #</u>	<u>%</u>
Polyisocyanate Resin	9057-91-4	40 - 60
Quartz (Silica-Crystalline)	14808-60-7	10 - 30
Parachlorobenzotrifluoride (PCBTF)	98-56-6	7 - 13
Titanium dioxide	13463-67-7	3 - 7
Oxazolidine Hardener	140921-24-0	3 - 7
Light aromatic solvent naphtha	64742-95-6	1 - 5
2-ethylhexanal	123-05-7	1 - 5
Diethanolamine	111-42-2	0.5 - 1.5
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5
Hexamethylene diisocyanate	822-06-0	0.5 - 1.5
Toluene diisocyanate	26471-62-5	0.1 - 1
(d)-Limonene	5989-27-5	0.1 - 1

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

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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 MSDS 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	If swallowed, do not induce vomiting. Get medical attention immediately.
Most Important Acute Symptoms and Effects	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	No data available
Fire and/or Explosion Hazards	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, Toxic fumes, 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. 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

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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.

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, Copper, Copper alloys, Metals (ferrous), Amines, Caustics (bases, alkalis), Water, Alcohols

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH STEL</u>
Quartz (Silica-Crystalline)	see Table Z-3	0.05 mg/m ³ TWA (respirable fraction)	
Titanium dioxide	15 mg/m ³ TWA (total dust)	10 mg/m ³ TWA	
tert-butyl acetate	200ppm; 950mg/m ³ TWA	200ppm TWA	
Diethanolamine		0.46 ppm TWA; 2 mg/m ³ TWA	
1,2,4-Trimethylbenzene		25ppm; 123mg/m ³ TWA	
Hexamethylene diisocyanate		0.005 ppm TWA; 0.034 mg/m ³ 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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Physical State	Liquid
Color	Grey
Odor	Naphthalene-Like
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point (°F/°C)	No data available / No data available
Initial Boiling Point and Boiling Range	
Low (°F)	276.8
High (°F)	280.4
Flash Point (°F/°C)	104 / 40
Evaporation Rate	0.90
Flammability (solid, gas)	No data available
Upper Flammable/Explosive Limit	10.5
Lower Flammable/Explosive Limit	0.9
Vapor Pressure	5.30
Vapor Density	6.20 (air = 1)
Relative Density	2.250
Solubility in Water	Reacts slowly with water.
Partition coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature:	No data available
Viscosity	352
Volatiles, % by volume	22.79
Volatiles, % by weight	19.39
Volatile Organic Chemicals (g/L)	
(Regulatory, Calculated)	90.07
(Actual, Calculated)	77.55
Density	10.70 - 10.90 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. Elevated temperatures. Contact with water.
Incompatible Materials	Oxidizing agents, Acids, Copper, Copper alloys, Metals (ferrous), Amines, Caustics (bases, alkalis), Water, Alcohols
Hazardous Decomposition Products	Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen containing gases, Carbon dioxide., Carbon monoxide., Toxic fumes, Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation Eye contact Skin contact Ingestion Skin absorption
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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. Causes nose and throat irritation. Causes lung irritation.
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

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Skin Absorption very low exposures.
Minimal hazard in normal industrial use. May cause gastrointestinal discomfort May be harmful if absorbed through skin.

Eye Contact Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

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 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, 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.
Prolonged contact may cause an allergic skin reaction.
Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause minor systemic damage.

Skin Contact

Skin Absorption

Product Toxicology Data

Oral Acute Toxicity Estimate (ATE) 1,124.61 mg/kg
Dermal Acute Toxicity Estimate (ATE) 2,081.30 mg/kg

Component Toxicology Data

Chemical Component	Oral LD50	Dermal LD50	Inhalation LC50
Quartz	Oral LD50 Rat > 22,500 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 20.00 mg/L
Parachlorobenzotrifluoride (PCBTF)	Oral LD50 Rat 11,500 mg/kg		Inhalation LC50 Rat 20.00 g/m3
Titanium dioxide	Oral LD50 Rat > 25,000 mg/kg	Dermal LD50 Rabbit > 10,000 mg/kg	Inhalation LC50 (4h) Rat > 6.82 mg/L
Light aromatic solvent naphtha	Oral LD50 Rat 8400 mg/kg	Dermal LD50 Rat > 2000 mg/kg	Inhalation LC50 (4h) Rat 5.60 mg/L
2-ethylhexanal	Oral LD50 Rat 2600 mg/kg		
tert-butyl acetate	Oral LD50 Rat 4100 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (6h) Rat > 4,000.00 ppm
Diethanolamine	Oral LD50 Rat 680 mg/kg		

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1,2,4-Trimethylbenzene	Oral LD50 Rat 6000 mg/kg	Dermal LD50 Rat > 3440 mg/kg	Inhalation LC50 (4h) Rat 10.20 mg/L
Hexamethylene diisocyanate	Oral LD50 Rat 746 mg/kg	Dermal LD50 Rabbit > 7000 mg/kg	Inhalation LC50 (4h) Rat 0.12 mg/L
Toluene diisocyanate	Oral LD50 Rat 6170 mg/kg	Dermal LD50 Rabbit > 16,000 mg/kg	Inhalation LC50 (4h) Rat 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.

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)).

Marine Pollutant: No

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

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

CERCLA

tert-Butyl acetate	540-88-5	1 - 5
Diethanolamine	111-42-2	0.5 - 1.5
Hexamethylene-1,6-diisocyanate	822-06-0	0.5 - 1.5
Toluene Diisocyanate	26471-62-5	0.1 - 1

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Diethanolamine	111-42-2	0.5 - 1.5
1,2,4-Trimethylbenzene	95-63-6	0.5 - 1.5
Hexamethylene-1,6-diisocyanate	822-06-0	0.5 - 1.5
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	CAS #	%
Crystalline Silica	14808-60-7	10 - 30
Titanium dioxide	13463-67-7	3 - 7
Toluene Diisocyanate	26471-62-5	0.1 - 1
Ethyl Benzene	100-41-4	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		
Benzene	71-43-2	0.001- 0.01
Methyl Alcohol	67-56-1	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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Disclaimer 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.