Revision Date: 07-20-2009 Product Code: 70410-CA

I. PRODUCT AND COMPANY IDENTIFICATION **Product Name: URETHANE COATING BASECOAT GRAY** Product Code: 70410-CA Document ID: M70410-CA Company: NEOGARD® - a Division of JONES-BLAIR® Company 2728 Empire Central Dallas, TX 75235 1-214-353-1600 **Revision Number:** 1 Prior Version Date: None Chemical Family: **Urethane Coating** Intended use: Industrial Maintanance Floor BaseCoat Urethane **Emergency Contact:** ChemTrec Center **Emergency Phone:** 1-800-424-9300 **II. HAZARDS IDENTIFICATION EMERGENCY OVERVIEW:** DANGER! Flammable 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 • **Target Organs Potentially Respiratory Tract** • Affected by Exposure: Skin • Central nervous system • Eyes Medical Conditions Skin allergies. • Aggravated by Exposure: 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. • • Eve disorders. 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. Causes eve irritation. Eye Contact: Ingestion Toxicity: Harmful if swallowed. Long-Term (Chronic) Health Effects:

Cancer hazard: Contains Crystalline Silica, which can cause cancer. Risk of cancer Page 1 of 6

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| Inhalation: | 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.) 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. |
|---------------|---|
| Skin Contact: | 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. |

III. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | % | CAS # |
|------------------------------------|-----------|------------|
| Polymer of TDI | 10 - 30 | 53272-20-1 |
| Polyisocyanate Resin | 10 - 30 | 9057-91-4 |
| Quartz (Silica-Crystalline) | 10 - 30 | 14808-60-7 |
| Calcium carbonate | 10 - 30 | 471-34-1 |
| Parachlorobenzotrifluoride (PCBTF) | 5 - 10 | 98-56-6 |
| Stoddard solvent | 1 - 5 | 8052-41-3 |
| tert-butyl acetate | 1 - 5 | 540-88-5 |
| Titanium dioxide | 1 - 5 | 13463-67-7 |
| Light aromatic solvent naphtha | 0.5 - 1.5 | 64742-95-6 |
| Toluene diisocyanate | 0.1 - 1 | 26471-62-5 |

IV. FIRST-AID MEASURES

| Inhalation: | Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If |
|---------------|---|
| Eyes: | 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 |
| Skin Contact: | medical attention immediately. Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if |
| Ingestion: | irritation develops or persists. If swallowed, do not induce vomiting. Get medical attention immediately. |

V. FIRE FIGHTING MEASURES

| Fire and/or Explosion Hazards: Vapors | ohol resistant foam, carbon dioxide, or dry chemical extinguishing Water spray or fog may also be effective for extinguishing if cross the base of the fire. Water can also be used to absorb heat himize fire damage. |
|---------------------------------------|---|
| heavier Empty o vapor) o | may be ignited by sparks, flames or other sources of ignition if I is above the flash point giving rise to a fire (Class B). Vapors are than air and may travel to a source of ignition and flash back. containers that retain product residue (liquid, solid/sludge, or can be dangerous. Do not pressurize, cut, weld, braze, solder, nd, or expose container to heat, flame, sparks, static electricity, or |

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| | | other sources of ignition. Any of these actions can potentially cause an | | |
| Fire Fighting Methods and Protection: | | explosion that may lead to injury or death. | | |
| Fire Fighting Methods an | a 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. | | |
| Hazardous Combustion F | roducts: | Carbon dioxide, Carbon monoxide, Hydrogen cyanide, Nitrogen containing gases, Hydrocarbons, Toxic fumes, Isocyanates, Isocyanic | | |
| | | Acid | | |
| | | | | |
| Flash Point (°F/°C): Autoignition Temperature | | 95 / 35 932.0 / 500.0 | | |
| Lower Flammable/Explos | | | | |
| Upper Flammable/Explos | | | | |
| VI. ACCIDENTAL RELEAS | | | | |
| Personal Precautions and | | Exposure to the spilled material may be severely irritating or toxic. | | |
| | a Equipment. | 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 STO | RAGE | | | |
| Handling Technical Meas | ures and Preca | autions: 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. | | |
| Storage Technical Measu | ires and Condit | | | |
| U | | away from sources of ignition. | | |
| VIII. EXPOSURE CONTRO | | I PROTECTION | | |
| Engineering Measures: | | ventilation or other engineering controls may be required when handling or | | |
| Engineering measures. | | duct to avoid overexposure. Engineering controls must be designed to | | |
| | | A chemical specific standard in 29 CFR 1910. | | |
| Respiratory Protection: | | cal 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 | | | |
| | | y application use NIOSH approved supplied air respirator unless air | | |
| | | monstrates vapor/mist levels below applicable limits. When monomeric | | |
| | | ncentrations are below 0.05 ppm (10 times the 8 hour TWA exposure limit), e combination organic vapor and particulate respirator (NIOSH approved) | | |
| | | priate. An end-of-service-life Indicator (ESLI) or a change schedule is | | |
| | mandatory. | | | |
| Eye Protection: | | ally resistant safety glasses with side shields when handling this product. al eye protection such as chemical splash goggles and/or face shield when | | |
| | | exists for eye contact with splashing or spraying liquid, or airborne | | |
| | | e an eye wash station available. | | |
| | | | | |

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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 | ACGIH TLV-TWA | ACGIH STEL | OSHA PEL-TWA |
| Quartz (Silica-Crystalline) | 0.05 mg/m ³ TWA (respirable fraction) | | see Table Z-3 |
| Calcium carbonate | | | 15 mg/mg³ TWA total dust; 5mg/m³ TWA Respirable Dust |
| Stoddard solvent | 100 ppm TWA; 572 mg/m³ TWA | | 500 ppm TWA; 2900 mg/m³ TWA |
| tert-butyl acetate | 200ppm TWA | | 200ppm; 950mg/m ³ TWA |
| Titanium dioxide | 10 mg/m ³ TWA | | 15 mg/m ³ TWA (total dust) |
| Toluene diisocyanate | 0.005 ppm TWA | 0.02 ppm | |

IX. PHYSICAL AND CHEMICAL PROPERTIES

| Color: | Grey |
|---|--|
| Physical State: | Liquid |
| Boiling Point - Low: | 250.0 |
| Boiling Point - High: | 252.0 |
| Evaporation Rate (n-BA = 1): | 0.9 |
| Odor: | Naphthalene-Like |
| Vapor Density: | 6.2 (air = 1) |
| Vapor Pressure: | 5.3 |
| VOC (g/l) (Regulatory, Calculated): | 96.95 |
| (Actual, Calculated): | 84.8 |
| Viscosity: | 80 - 97 KU |
| Solubility in Water: | Reacts slowly with water. |
| Octanol/Water Partition Coefficient: | Not Available |
| Volatiles, % by Volume (Calculated): | 22.79 |
| Volatiles, % by weight (Calculated): | 17.62 |
| Wt/Gal: | 11.08 - 11.28 |
| Dhysical and Chamical Drapartics are as | a substant and a second a second a second second standard and the second s |

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

| Stability: | Stable under normal conditions. |
|--|--|
| Conditions to Avoid: | Sparks, open flame, other ignition sources, and elevated |
| | temperatures. Contamination. Elevated temperatures. Contact with water. |
| Materials to Avoid/Chemical Incompatibility: | Oxidizing agents, Acids, 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, Hydrocarbons, Toxic fumes, Hydrogen chloride |

XI. TOXICOLOGICAL INFORMATION

| Component Toxicology Data: | | |
|----------------------------|------------|-----------------------------|
| Chemical Name | CAS Number | LD50/LC50 |
| Quartz | 14808-60-7 | Oral LD50 Rat > 22500 mg/kg |

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| | | | Tiouu | Ci Odde. 70410-0. |
|--|----------------------------|--|-----------------------------------|---------------------|
| Parachlorobenzotrifluoride | 98-56-6 | Oral LD50 Rat 115 | 00 mg/kg | |
| (PCBTF) | | Inhalation LC50 Ra | at 20 g/m3 | |
| Stoddard solvent | 8052-41-3 | Oral LD50 Rat > 5 | | |
| | | Inhalation LC50 Ra | at > 6.1 mg/L | |
| tert-butyl acetate | 540-88-5 | Oral LD50 Rat 450 Dermal LD50 Rabb | oit > 2000 mg/kg | |
| Titanium dioxide | 13463-67-7 | Inhalation LC50 (6) Oral LD50 Rat > 25 | n) Rat > 4000 ppm 5 g/kg | |
| | | Dermal LD50 Rabb | oit > 10 g/kg | |
| Light aromatic solvent naphth | a 64742-95-6 | Inhalation LC50 (4) Oral LD50 Rat 4 - 8 | | |
| | | Dermal LD50 Rat > | → 2 g/kg n) Rat 6.2 - 10.4 mg/ | 4 |
| Toluene diisocyanate | 26471-62-5 | Dermal LD50 Rabb | oit > 9400 mg/kg | L |
| | | Oral LD50 Rat 413 Inhalation LC50 (1) | | |
| Carcinogens: | | | | |
| 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 | |
| KII. ECOLOGICAL INFORMA Foxicity data, if available, ard KIII. DISPOSAL CONSIDERA | e listed below. | | | |
| Disposal Methods: | | ther sections of this N | ISDS to determine th | ne toxicity and |
| | | aracteristics of the m | | |
| | | on and disposal in cor | | |
| XIV. TRANSPORTATION INF | ORMATION | | | |
| | | | | |
| This section provides basic sh details. Refer to all applicable requirements and restrictions. | | | | |
| | | | | |
| DOT Basic Description: | Paint | | | |
| Hazard Class: | 3 | | | |
| UN Number: | UN1263 | | | |
| Packing Group: | III | | | |
| | This product qualifies for | a limited quantity exc | ception per CFR173 | 150(b)(3) for inner |
| | containers <= 1.3 gallons | | | |
| | in galloni | , | | - (3)- |
| | | | | |

XV. REGULATORY INFORMATION

| United States Fe | deral Regulations: |
|------------------|---|
| TSCA Status | All components of this product are either listed on the TSCA Inventory; or, are not subject to the inventory notification requirements. |

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

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| CERCLA tert-Butyl acetate Toluene Diisocyanate SARA 313 Toluene diisocyanate (r SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): Pressure: | mixed isomers) Y Y | 540-88-5 26471-62-5 26471-62-5 | 1 - 5 0.1 - 1 0.1 - 1 | | |
|---|---|---|-----------------------------|-------------------------------------|--|
| Toluene Diisocyanate SARA 313 Toluene diisocyanate (r SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): | Ŷ | 26471-62-5 | 0.1 - 1 | | |
| SARA 313 Toluene diisocyanate (r SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): | Ŷ | | | | |
| Toluene diisocyanate (r SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): | Ŷ | 26471-62-5 | 0.1 - 1 | | |
| Toluene diisocyanate (r SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): | Ŷ | 26471-62-5 | 0.1 - 1 | | |
| SARA 311/312 Health (Acute): Health (chronic): Fire (Flammable): | Ŷ | 20471-02-3 | 0.1 - 1 | | |
| Health (Acute): Health (chronic): Fire (Flammable): | | | | | |
| Health (Acute): Health (chronic): Fire (Flammable): | | | | | |
| Health (chronic): Fire (Flammable): | | | | | |
| Fire (Flammable): | | | | | |
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| 11000010. | Ň | | | | |
| Reactivity: | N | | | | |
| Redelivity. | IN IN | | | | |
| U. S. State Regulations | s: | | | | |
| California Prop 65 Che | | | | | |
| • | | CAS # | % | | |
| | | | | | |
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| 2 | | | | | |
| | | | | | |
| | | 11 40 2 | | | |
| • | | 67-56-1 | 0.001 - 0.01 | | |
| 2 | | | | | |
| Delizerie | | 71-45-2 | | | |
| Canadian Regulations | | | | | |
| | | nents of this product | ARE listed on the Ca | anadian Domestic Substances | |
| | • | | | anadian Domestic Oubstances | |
| WHMIS Hazard Class: | | | | | |
| Winnio Hazard Class. | | | | | |
| XVI. ADDITIONAL INFO | | | | | |
| | | ortmont | | | |
| | v , , | | oordonoo with the OC | SHA Hozord Communication | |
| Discialmer: | | This MSDS has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada's Controlled Product Regulations (CPR). To | | | |
| | | | | | |
| | | nowledge the inform | ation contained herei | in is accurate. Determination of | |
| | 6 1 11 ¹ | | a · · · · · | esponsibility of the end user. This | |
| California Prop 65 Che Cancer Crystalline Silica Toluene Diisocyanate Carbon Black Benzene Reproductive Methyl Alcohol Benzene <u>Canadian Regulations</u> : CEPA DSL: WHMIS Hazard Class: <u>XVI. ADDITIONAL INFO</u> Prepared By: Disclaimer: | The compor List. B2 D2A DRMATION Regulatory Depa This MSDS has Standard (29 CF the best of our k | artment been prepared in ac R 1910.1200) and C | cordance with the OS | | |

information is furnished without warranty, expressed or implied.

July 20, 2009

Print Date: