

Material Safety Data Sheet

Revision Date: 02-01-2010

Product Code: FC7540

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FC URETHANE ALIPHATIC TOPCOAT - GRAY
Product Code: FC7540
Document ID: MFC7540
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 Maintenance Floor TopCoat Urethane
Emergency Contact: ChemTrec Center
Emergency Phone: 1-800-424-9300

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **DANGER!**
Causes eye burns.
Causes skin burns.
Harmful if swallowed.
Harmful if inhaled.
May cause allergic respiratory reaction.
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
- Skin contact
- Eye contact
- Ingestion

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.
- Skin allergies.
- Eye 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. Causes nose and throat irritation. Causes lung irritation.

Inhalation Toxicity: May cause allergic respiratory reaction. Inhalation of high concentrations may be corrosive with symptoms of coughing, burning, ulceration and pain.

Skin Contact: Corrosive to skin tissue. Can cause chemical burns. Sensitizer. Avoid exposure. If sensitized, repeated exposures will result in irritation, reddening, and rashes even for very low exposures.
May cause allergic skin reaction.

Long-Term (Chronic) Health Effects:

Carcinogenicity: 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.

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

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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.

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

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #
Titanium dioxide	3 - 7	13463-67-7
Aldimine	1 - 5	54914-37-3
Decamethylcyclopentasiloxane	0.5 - 1.5	541-02-6

IV. FIRST-AID MEASURES

Inhalation: Remove individual to fresh air after an airborne exposure if any symptoms develop as a precautionary measure. If breathing difficulty persists or occurs later, consult a physician and have MSDS available.

Eyes: 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 under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Thoroughly wash or discard clothing and shoes before reuse.

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

V. FIRE FIGHTING MEASURES

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Carbon dioxide Alcohol foam Dry chemical Water spray

Fire and/or Explosion Hazards: Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Fire Fighting Methods and Protection: 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.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen containing gases

Flash Point (°F/°C): 201 / 94

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including the material spilled, the quantity of the spill, the area in which the spill occurred. See MSDS sections III, XIII and XV for disposal considerations.

Methods for Clean-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.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Overexposure may be harmful. As with all chemicals, good industrial hygiene practices should be followed when handling

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this material. Do not get in eyes, on skin and clothing. Wash thoroughly after handling.

Storage Technical Measures and Conditions:

Store in a cool dry place. Keep container(s) closed.

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.
- 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	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL-TWA
Titanium dioxide	10 mg/m ³ TWA		15 mg/m ³ TWA (total dust)

IX. PHYSICAL AND CHEMICAL PROPERTIES

- Color:** Grey
- Physical State:** Liquid
- VOC (g/l)** (Regulatory, Calculated): 25.54
(Actual, Calculated): 24.97
- Solubility in Water:** Minimal; 1-9%
- Octanol/Water Partition Coefficient:** Not Available
- Volatiles, % by Volume** (Calculated): 5.13
- Volatiles, % by weight** (Calculated): 3.18
- Wt/Gal:** 12.1 - 12.3

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:** Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Water contamination.
- Materials to Avoid/Chemical Incompatibility:** Oxidizing agents, Acids, Alkaline earth metals
- Polymerization:** Will not occur.
- Hazardous Decomposition Products:** Carbon dioxide, Carbon monoxide, Nitrogen containing gases

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
Titanium dioxide	13463-67-7	Oral LD50 Rat > 25 g/kg

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Aldimine

54914-37-3

Dermal LD50 Rabbit > 10 g/kg
Inhalation LC50 (4h) Rat > 6.82 mg/L
Oral LD50 Rat 1000 - 4150 mg/kg
Dermal LD50 Rat > 5000 mg/kg

Carcinogens:

Chemical Name
Titanium dioxide

CAS Number
13463-67-7

IARC
2B

NTP

OSHA

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.

DOT Basic Description: Paint, Not-Regulated

XV. REGULATORY INFORMATION

United States Federal 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
Not applicable

CAS #

%

CERCLA
Not applicable

SARA 313
Not applicable

SARA 311/312
Health (Acute): Y
Health (chronic): Y
Fire (Flammable): N
Pressure: N
Reactivity: N

U. S. State Regulations:

California Prop 65 Chemicals

Cancer

Ethyl Benzene 100-41-4 0.01 - 0.1
Benzene 71-43-2 < 0.1 ppm

Reproductive

Toluene 108-88-3 < 10 ppm
Benzene 71-43-2 < 0.1 ppm

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Canadian Regulations:

CEPA DSL: The components of this product ARE listed on the Canadian Domestic Substances List.
WHMIS Hazard Class: D2A E

XVI. ADDITIONAL INFORMATION

Prepared By: Regulatory Department
Disclaimer: 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 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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