

**Safety Data Sheet**  
**Titan-109 MCU & Titan-118 MCU**

**Section 1. Product and Company Identification**

**Product Name:** Titan-109 MCU & Titan-118 MCU  
**Supplier:** NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992  
**Emergency Phone Number:** 800-535-5053  
**Product Description:** Intended for concrete repairs and restoration  
**Product Use:** Repairs  
**Chemical Name or Synonym:** N/A

**Section 2. Hazards Identification**

**Classification of the substance or mixture**

Skin corrosion/irritation – Category 2  
 Eye damage/eye irritation – Category 2A  
 Specific Target Organ Toxicity – Category 3



**Hazard Statements:**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation

**Signal Word:** Warning

**Precautionary Statement:**

P280 Wear protective gloves  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352 IF ON SKIN: Wash with plenty water.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Section 3. Composition/ Information on Ingredients**

Component	CAS#	%Composition
Reaction product of a polyether with hexamethylene diisocyanate (HDI)	N/A	Proprietary
Carbon Fiber	7440-44-0	45 – 60
4-Methylbenzenesulfonyl isocyanate	4083-64-1	< 2.4

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**Section 4. First Aid Measures**

**First Aid Measures for Accidental:**

**Inhalation:** If inhaled remove to fresh air.

**Ingestion:** If swallowed do not induce vomiting. Rinse mouth with water. Obtain medical attention.

**Eye contact:** In case of contact, rinse thoroughly with plenty of water, also under the eyelids for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

**Skin contact:** Remove contaminated clothing and shoes. Wash affected skin with soap and plenty of warm water. Do not reuse contaminated clothing until cleaned.

**Most important symptoms/effects, acute and delayed:**

**Eye contact:** Temporary irritation (itching) or redness may occur.

**Skin contact:** Temporary irritation (itching) or redness may occur.

**Inhalation:** Irritation of the upper respiratory tract (scratchy throat), coughing, and congestion may occur in extreme exposures.

**Ingestion:** This product is not intended to be ingested (eaten). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

**Indication of immediate medical attention and special treatment needed:** No information available.

**Section 5. Fire Fighting Measures**

**Suitable Extinguishing Media:** For suitable extinguishing media, use Alcohol-resistant foam (on small fires), carbon dioxide, dry chemical, water spray..

**Unsuitable Extinguishing Media:** For unsuitable extinguishing media, use water spray jet

**Special Fire Fighting Procedures:**

**Special Protective Equipment and Precautions for Fire-fighters:** Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Full protective flameproof clothing.

**Specific Hazards Arising from the Chemical (Under Fire Conditions):** Carbon oxides, nitrogen oxides, Other hazardous decomposition products may be formed.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Do not touch or walk through spilled material. Provide adequate ventilation. Wear respirator and personal protective equipment as appropriate to prevent skin and eye contact. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

**Environmental Precautions:** Material should not be released into the environment. Prevent product from entering drains.

**Methods and Materials for Containment and Cleaning Up:** Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Dam up.

**Section 7. Handling and Storage**

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Handle in accordance with good industrial hygiene and safety practice. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Purge containers with dry nitrogen before resealing. Do not use spot heating devices such as band heaters or torches. Make sure contents are completely liquid and uniform before using.

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**Conditions for safe storage including any incompatibilities:** Keep in a dry and cool place away from incompatible materials (see Section 10). Avoid contact with moisture and prolonged exposure to temperatures above 140°F (60°C). Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers.

**Section 8. Exposure Controls / Personal Protection**

**Control Parameters (Exposure Limits):**

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Carbon fiber	TLV-TWA 10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable)	ND	TWA 15 mg/m <sup>3</sup> (dust) TWA 5 mg/m <sup>3</sup> (respirable)

**Appropriate Engineering Control:** No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal Protective Equipment:**

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Eye / Face Protection:** Wear appropriate safety glasses with side shields.

**Skin Protection:** Permeation resistant impervious gloves. Cover as much of the exposed area as possible with protective clothing.

**Additional protective measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Section 9. Physical and Chemical Properties**

<b>Physical State:</b>	Solid
<b>Colour:</b>	Carbon fiber cloth impregnated with yellow viscous resin
<b>Odor:</b>	Slight
<b>Melting Point/ Freezing Point:</b>	No data available
<b>Boiling point:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Lower and Upper Explosion limits/ Flammability Limits:</b>	No data available
<b>Flash Point:</b>	>100° C
<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>pH:</b>	No data available
<b>Kinematic Viscosity:</b>	235,000 cPs
<b>Solubility:</b>	No data available
<b>Evaporation rate (ether=1):</b>	No data available
<b>Flammability Limits in Air:</b>	No data available
<b>Solubility in other solvents:</b>	No data available

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Partition coefficient (n-octanol/water):	No data available
Vapour Pressure:	No data available
Density and/or Relative Density:	No data available
Relative Vapour Density:	No data available
Specific Gravity:	No data available
Particle Characteristics:	No data available

#### Section 10. Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous reactions:** Reactions with strong oxydizers may occur. Hazardous polymerization will not occur.

**Conditions to Avoid:** Exposure to moisture. Extremes of temperatures and direct sunlight.

**Incompatible Materials / Chemicals:** Alcohols, strong oxidizers.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides. Other hazardous decomposition products may be formed.

#### Section 11. Toxicological Information

**Information in the likely route of exposure:**

**Potential Acute Health Effects:**

Inhalation: No data available

Ingestion: No data available

Skin contact: Irritating to skin.

Eye contact: Irritating to eyes.

**Symptoms related to the physical, chemical and toxicological characteristics:**

**Target organs:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive Toxicity:** No data available

**Tetratogenicity:** No data available

**Specific Target Organ Toxicity - single exposure (STOT-se):** No data available

**Specific Target Organ Toxicity - repeated exposure (STOT-re):** No data available

**Over-exposure signs / symptoms:** No data available

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

Short term exposure: No data available.

Long term exposure: No data available

**Numerical measures of toxicity:** No data available

#### Section 12. Ecological Information

**Ecotoxicity:** No determined

**Persistence and degradability:** No determined

**Bioaccumulative potential:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**Mobility in soil:** No determined

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**Other adverse effects:** No determined

**Section 13. Disposal Considerations**

**Waste treatment methods:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Should not be released into the environment. Prevent product from entering drains. Dispose of as solid waste in accordance with local, state, and federal regulations.

**Uncleaned packaging:** Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur. Dispose of container and unused contents in accordance with federal, state, and local regulations.

**Section 14. Transport Information**

**ADR:** Not dangerous goods

**IATA:** Not dangerous goods

**IMDG:** Not dangerous goods

**RID:** Not dangerous goods

**Section 15. Regulatory Information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Candidate List of Substances of Very High Concern for Authorization:** This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

**Major Accident Hazard:** 96/82/EC Update: 2003

**Legislation:** Directive 96/82/EC does not apply

**Notification status:**

US.TSCA: On TSCA Inventory

DSL: This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

AICS: Not in compliance with the inventory

NZIoC: Not in compliance with the inventory

ENCS: On the inventory, or in compliance with the inventory

KECI: Not in compliance with the inventory

PICCS: Not in compliance with the inventory

IECSC: On the inventory, or in compliance with the inventory

**Section 16. Other Information**

**Key Legend Information:**

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or



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implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

(R2) Revision date: 07.20.18