



# Material Safety Data Sheet

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** F115-11WH  
**Trade Name** UNI-BOND DF WHITE  
**Contact Manufacturer** Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372  
**Emergency Telephone Number** 800-535-5053 (INFOTRAC) - TNE MEC REGULATORY DEPT: 816-474-3400

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### WARNING!

HARMFUL IF INHALED.  
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

#### Potential Health Effects

**Principle Routes of Exposure** Eye contact, Inhalation, Skin contact.

#### Acute Effects

**Eyes** Irritating to eyes.  
**Skin** Irritating to skin.  
**Inhalation** Irritating to respiratory system. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs.  
**Ingestion** May be harmful if swallowed.

#### Chronic Effects

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. Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure.) Contains ethylene glycol monobutyl ether which may cause blood damage based on animal data.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** Central nervous system. Kidney disorders. Liver disorders. Skin disorders.

**Interactions with Other Chemicals** Use of alcoholic beverages may enhance toxic effects.

**Potential Environmental Effects** See Section 12 for additional Ecological information

**Target Organ Effects** Blood, Central nervous system, Central Vascular System, Eyes, Hematopoietic System, Kidney, Liver, Lungs, Respiratory system, Skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	10 - 30
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
PROPRIETARY PIGMENT (NUISANCE DUST)		5 - 10
PROPRIETARY PIGMENT (NIUSANCE DUST)	13983-17-0	1 - 5
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	111-76-2	3.9617
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	2.7772
MICA (RESPIRABLE DUST)	12001-26-2	1 - 5
VM&P NAPHTHA	8032-32-4	0.7289
ALUMINUM OXIDES	1344-28-1	0.1 - 1

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	No information available.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO <sub>2</sub> ) - Foam - Dry chemical

**Hazardous Decomposition Products** Oxides of carbon, hydrocarbons. Ammonia.

#### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

#### Protective Equipment and Precautions for Firefighters

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. May cause heat and pressure build-up in closed containers.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
<b>Methods for Cleaning Up</b>	If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.
<b>Other Information</b>	Not applicable

7. HANDLING AND STORAGE

**Handling**

Close container after each use. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. If splashes are likely to occur, wear goggles. Wear protective gloves/clothing. Do not burn, or use a cutting torch on, the empty drum. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

**Storage**

Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	Quebec TWAEV	Ontario TWAEV	Mexico OEL (TWA)
TITANIUM DIOXIDE (TOTAL DUST)	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
TALC (RESPIRABLE DUST)	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
PROPRIETARY PIGMENT (NIUSANCE DUST)			TWA: 5 ppm TWA: 10 ppm		
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	TWA: 20 ppm	TWA: 25 ppm TWA: 120 mg/m <sup>3</sup> Skin TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 97 mg/m <sup>3</sup>	TWA: 20 ppm Skin	TWA: 26 ppm TWA: 120 mg/m <sup>3</sup> STEL: 75 ppm STEL: 360 mg/m <sup>3</sup>
CRYSTALLINE SILICA (QUARTZ)	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
MICA (RESPIRABLE DUST)	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
VM&P NAPHTHA	TWA: 300 ppm	TWA: 1350 mg/m <sup>3</sup> TWA: 300 ppm STEL: 1800 mg/m <sup>3</sup> STEL: 400 ppm	TWA: 1370 mg/m <sup>3</sup> TWA: 300 ppm	TWA: 1350 mg/m <sup>3</sup>	TWA: 300 ppm TWA: 1350 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1800 mg/m <sup>3</sup>
ALUMINUM OXIDES	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment**

**Skin Protection**

Lightweight protective clothing, Apron, Impervious gloves

**Eye/face Protection**

Safety glasses with side-shields

**Respiratory Protection**

**Use only with adequate ventilation.** Do not breathe dust, vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust created by cutting, sanding, or grinding.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point**

Not applicable

**Boiling Point/Range**

100 - 172°C / 212.0 - 341.0°F

**Upper Exposure Limits**

No information available

**Lower Exposure Limits**

No information available

**Evaporation Rate**

No information available

**Vapour Pressure**

No information available

**Vapour Density**

No information available

**Specific Gravity**

1.39437

**Density**

11.60324

## 9. PHYSICAL AND CHEMICAL PROPERTIES

VOC Content (lbs/gal)	1.146
% Volatile by Weight	39.3930
% Volatile by Volume	55.8772

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable.	<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Products</b>	Strong oxidizing agents. Acids. Alkalines. Amines.	<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
TITANIUM DIOXIDE (TOTAL DUST)	10000 mg/kg ( Rat )		
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	470 mg/kg ( Rat )	2270 mg/kg ( Rat ) 220 mg/kg ( Rabbit )	2.21 mg/L ( Rat ) 4 h 450 ppm ( Rat ) 4 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg ( Rat )		
VM&P NAPHTHA			3400 ppm ( Rat ) 4 h
ALUMINUM OXIDES	5000 mg/kg ( Rat )		

<b>Irritation</b>	No information available
<b>Corrosivity</b>	No information available
<b>Sensitization</b>	No information available

### Chronic Toxicity

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	ACGIH	IARC	NTP	OSHA	Mexico
TITANIUM DIOXIDE (TOTAL DUST)		Group 2B		X	
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	A3				
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	
VM&P NAPHTHA					A3

<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Target Organ Effects</b>	Blood, Central nervous system, Central Vascular System, Eyes, Hematopoietic System, Kidney, Liver, Lungs, Respiratory system, Skin.
<b>Endocrine Disruptor Information</b>	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio rerio 96 h		
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)		LC50= 1490 mg/L Lepomis macrochirus 96 h		EC50 = 1720 mg/L 24 h LC50 1698 - 1940 mg/L 24 h
VM&P NAPHTHA	EC50 = 4700 mg/L 72 h			

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods** Keep container tightly closed. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

**14. TRANSPORT INFORMATION**

**DOT Ground Transportation Only.** Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.  
**Proper Shipping Name** PAINT, WATER BASE FREEZABLE

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL/NDL** Does not Comply  
**EINECS/ELINCS** Does not Comply  
**CHINA** Does not Comply  
**ENCS** Does not Comply  
**KECL** Does not Comply  
**PICCS** Does not Comply  
**AICS** Does not Comply

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

**U.S. Federal Regulations**

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	111-76-2	3.9617	1.0

**SARA 311/312 Hazardous Categorization**

**Chronic Health Hazard** No  
**Acute Health Hazard** Yes  
**Fire Hazard** Yes  
**Sudden Release of Pressure Hazard** No  
**Reactive Hazard** No

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TITANIUM DIOXIDE (TOTAL DUST)	X	X	X		X
TALC (RESPIRABLE DUST)	X	X	X		X
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	X	X	X	X	X
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X
MICA (RESPIRABLE DUST)	X	X	X		X
VM&P NAPHTHA		X	X		
ALUMINUM OXIDES	X	X	X		X

**Other International Regulations**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid  
D2B Toxic materials



Component	NPRI
ETHYLENE GLYCOL MONOBUTYL ETHER (SKIN)	Part 1, Group 1 Substance; Part 5 Substance
VM&P NAPHTHA	Part 5 Substance
ALUMINUM OXIDES	Part 1, Group 1 Substance (fibrous form)

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**

Revision Date: 29-Dec-2009

Revision Summary: No information available

HMIS Health 0 Flammability 0 Reactivity 0

**Disclaimer**

For specific information regarding occupational safety and health standards, please refer to the Code of Federal Regulations, Title 29, Part 1910.

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**End of MSDS**