



# Material Safety Data Sheet

Preparation Date: 04-Jan-2010

Revision Date: 29-Dec-2009

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** S237-11WHA  
**Trade Name** POWER-TREAD TINT 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

#### DANGER!

CAUSES SKIN AND EYE BURNS.  
MAY CAUSE ALLERGIC SKIN REACTION; EFFECTS MAY BE PERMANENT.  
HARMFUL IF INHALED.  
HARMFUL OR FATAL IF SWALLOWED.  
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

#### Potential Health Effects

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

#### Acute Effects

**Eyes** Causes burns.  
**Skin** Causes burns. May cause sensitization by skin contact.  
**Inhalation** Irritating to respiratory system.  
**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.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** No information available

**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** Lungs, Respiratory system

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

BISPHENOL A TYPE EPOXY RESIN		60 - 100
BENZYL ALCOHOL	100-51-6	6.2921
NONYLPHENOL	84852-15-3	5 - 10
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	5 - 10
CARBAMIDE ACID ESTER RESIN		1 - 5
ALUMINUM OXIDES	1344-28-1	0.1 - 1
TOLUENE	108-88-3	0.1592

### 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
<b>Hazardous Decomposition Products</b>	Oxides of carbon, hydrocarbons. Aldehydes. Ketones. Silicon. Oxides of nitrogen. Hydrogen cyanide. Oxides of sulphur.

#### 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>
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>
TOLUENE	TWA: 20 ppm	TWA: 375 mg/m <sup>3</sup> TWA: 100 ppm STEL: 150 ppm STEL: 560 mg/m <sup>3</sup> TWA: 200 ppm Ceiling: 300 ppm	TWA: 50 ppm TWA: 188 mg/m <sup>3</sup> Skin	TWA: 50 ppm	TWA: 50 ppm TWA: 188 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**

If splashes are likely to occur, wear Goggles.

**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	No information available.0.0
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	1.18361
Density	9.84938
VOC Content (lbs/gal)	.314
% Volatile by Weight	3.1890
% Volatile by Volume	4.2061

## 10. STABILITY AND REACTIVITY

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable.	<b>Conditions to Avoid</b>	Heat, flames and sparks. Amines. Reacts with air to form peroxides. Contact with water liberates toxic gas (methanol).
<b>Incompatible Products</b>	Strong oxidizing agents. Bases. Acids. 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
BENZYL ALCOHOL	1230 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	8.8 mg/L ( Rat ) 4 h
NONYLPHENOL	580 mg/kg ( Rat )	2031 mg/kg ( Rabbit )	
TITANIUM DIOXIDE (TOTAL DUST)	10000 mg/kg ( Rat )		
ALUMINUM OXIDES	5000 mg/kg ( Rat )		
TOLUENE	636 mg/kg ( Rat )	8390 mg/kg ( Rabbit ) 12124 mg/kg ( Rat )	26700 ppm ( Rat ) 1 h 12.5 mg/L ( Rat ) 4 h

<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	

<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>	Lungs, Respiratory system.
<b>Endocrine Disruptor Information</b>	No information available

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
BISPHENOL A TYPE EPOXY RESIN	Group III Chemical		
NONYLPHENOL	Group II Chemical	Medium Exposure Concern	

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
BENZYL ALCOHOL	EC50 = 35 mg/L 3 h	LC50= 460 mg/L Pimephales promelas 96 h LC50= 10 mg/L Lepomis macrochirus 96 h	EC50 = 63.7 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 71.4 mg/L 30 min EC50 = 50 mg/L 5 min	EC50 = 23 mg/L 48 h

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
NONYLPHENOL	EC50 = 0.41 mg/L 96 h	LC50= 0.135 mg/L Pimephales promelas 96 h		EC50 = 0.14 mg/L 48 h EC50 = 0.140 mg/L 48 h
TOLUENE	EC50 > 433 mg/L 96 h	LC50= 25 mg/L Pimephales promelas 96 h LC50= 24.0 mg/L Oncorhynchus mykiss 96 h LC50= 24.0 mg/L Lepomis macrochirus 96 h LC50= 13 mg/L Lepomis macrochirus 96 h	EC50 = 19.7 mg/L 30 min	EC50 = 11.3 mg/L 48 h EC50 = 310 mg/L 48 h

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	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.
<b>Contaminated Packaging</b>	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 IN OIL

### 15. REGULATORY INFORMATION

#### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Does not Comply
<b>EINECS/ELINCS</b>	Does not Comply
<b>CHINA</b>	Does not Comply
<b>ENCS</b>	Does not Comply
<b>KECL</b>	Does not Comply
<b>PICCS</b>	Does not Comply
<b>AICS</b>	Does not Comply

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

This product contains the following HAPs:

Component  
TOLUENE

#### U.S. Federal Regulations

##### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
TOLUENE	108-88-3	0.1592	1.0

#### SARA 311/312 Hazardous Categorization

<b>Chronic Health Hazard</b>	No
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TOLUENE	1000 lb	X	X	X

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
TOLUENE	1000 lb 1 lb	

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
TOLUENE	108-88-3	Developmental

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BENZYL ALCOHOL	X		X		
NONYLPHENOL	X		X		
TITANIUM DIOXIDE (TOTAL DUST)	X	X	X		X
ALUMINUM OXIDES	X	X	X		X
TOLUENE	X	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**

D2B Toxic materials  
E Corrosive material



Component	NPRI
NONYLPHENOL	Part 1, Group 1 Substance
ALUMINUM OXIDES	Part 1, Group 1 Substance (fibrous form)
TOLUENE	Part 1, Group 1 Substance; Part 5 Substance

**Legend**

NPRI - National Pollutant Release Inventory

<b>16. OTHER INFORMATION</b>
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Revision Date: 29-Dec-2009

Revision Summary: No information available

HMIS

Health 0

Flammability 0

Reactivity 1

**Disclaimer**

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

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

**End of MSDS**



# Material Safety Data Sheet

Preparation Date: 30-Dec-2009

Revision Date: 29-Dec-2009

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** S237-0237B  
**Trade Name** POWER-TREAD CONVERTER  
**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

#### DANGER!

CAUSES SKIN AND EYE BURNS.  
MAY CAUSE ALLERGIC SKIN REACTION; EFFECTS MAY BE PERMANENT.  
HARMFUL IF INHALED.  
HARMFUL OR FATAL IF SWALLOWED.  
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

#### Potential Health Effects

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

#### Acute Effects

**Eyes** Causes burns.  
**Skin** Causes burns. May cause sensitization by skin contact.  
**Inhalation** Irritating to respiratory system.  
**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.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** 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** Skin, Eyes, Lungs

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

BENZYL ALCOHOL	100-51-6	35.8937
CYCLOHEXANAMINE	1761-71-3	30 - 60
POLYOXYPROPYLENETRIAMINE	39423-51-3	10 - 30

### 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
<b>Hazardous Decomposition Products</b>	Oxides of carbon, hydrocarbons. Oxides of nitrogen. Ammonia. Nitric acid, nitrosamine. Phenolics.

#### 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

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas

#### Personal Protective Equipment

##### Skin Protection

Lightweight protective clothing, Apron, Impervious gloves

##### Eye/face Protection

If splashes are likely to occur, wear Goggles.

##### 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	No information available.0.0
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	1.02293
Density	8.51235
VOC Content (lbs/gal)	.306
% Volatile by Weight	3.5890
% Volatile by Volume	3.5119

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable.	<b>Conditions to Avoid</b>	Heat, flames and sparks. Epoxy constituents.
<b>Incompatible Products</b>	Strong oxidizing agents. Bases. Acids. Hypochlorites. Nitrous acid and other nitrosating agents. Peroxides.	<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
BENZYL ALCOHOL	1230 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	8.8 mg/L ( Rat ) 4 h
CYCLOHEXANAMINE	1000 mg/kg ( Rat )		

#### Irritation Corrosivity

No information available  
No information available

**Sensitization** No information available

**Chronic Toxicity**

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

**Mutagenic Effects** No information available  
**Reproductive Effects** No information available  
**Developmental Effects** No information available  
**Teratogenicity** No information available  
**Target Organ Effects** Skin, Eyes, Lungs.  
**Endocrine Disruptor Information** No information available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
BENZYL ALCOHOL	EC50 = 35 mg/L 3 h	LC50= 460 mg/L Pimephales promelas 96 h LC50= 10 mg/L Lepomis macrochirus 96 h	EC50 = 63.7 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 71.4 mg/L 30 min EC50 = 50 mg/L 5 min	EC50 = 23 mg/L 48 h
CYCLOHEXANAMINE		LC50 46 - 100 mg/L Leuciscus idus 96 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** UN3066, PAINT, 8, PGIII, ERG 153

## 15. REGULATORY INFORMATION

**International Inventories**

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

**U.S. Federal Regulations**

**SARA 313**

**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:

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BENZYL ALCOHOL	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**

D2B Toxic materials  
E Corrosive material

**Legend**

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION
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Revision Date: 29-Dec-2009

Revision Summary: No information available

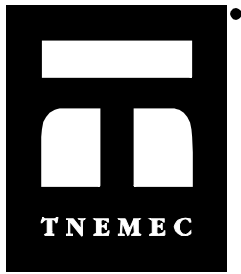
HMIS Health 0 Flammability 0 Reactivity 1

**Disclaimer**

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

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS



# Material Safety Data Sheet

Preparation Date: 30-Dec-2009

Revision Date: 29-Dec-2009

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** S237-SC01C  
**Trade Name** POWER-TREAD AGGREGATE  
**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 BY INHALATION.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

#### Potential Health Effects

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

#### Acute Effects

**Eyes** May cause slight irritation.  
**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

Cancer hazard. Contains crystalline silica which can cause cancer. (Risk of cancer depends on duration and level of exposure.)

See Section 11 for additional Toxicological information.

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

**Interactions with Other Chemicals** No information available. Use of alcoholic beverages may enhance toxic effects.

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

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	56.0747
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	37.3831
GLASS OXIDE	65997-17-3	1 - 5

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

AMORPHOUS SILICA	7631-86-9	1 - 5
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	0.2336

### 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>	Foam, carbon dioxide, and dry chemical.
<b>Hazardous Decomposition Products</b>	No information available

#### 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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 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>	Shovel or sweep up.
<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. Tightly fitting safety goggles. Wear protective gloves/clothing. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

#### Storage

Keep away from heat, sparks and flame. Keep container tightly closed.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	Quebec TWAEV	Ontario TWAEV	Mexico OEL (TWA)
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>

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>
GLASS OXIDE	TWA: 1 fiber/cm <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup>	Ceiling: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 1 fibre/cm <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup> TWA: 0.02 mg/m <sup>3</sup> TWA: 0.025 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 1 fibres/cm <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup> STEL: 0.6 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup> TWA: 0.5 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup> TWA: 0.002 mg/m <sup>3</sup> STEL: 10 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>

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment**

**Skin Protection**

Lightweight protective clothing, Apron, Impervious gloves

**Eye/face Protection**

Tightly fitting safety goggles

**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**

<b>Flash Point</b>	Not applicable
<b>Method</b>	Pensky Martens - Closed Cup
<b>Boiling Point/Range</b>	No information available
<b>Upper Exposure Limits</b>	No information available
<b>Lower Exposure Limits</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Vapour Pressure</b>	No information available
<b>Vapour Density</b>	No information available
<b>Specific Gravity</b>	2.35477
<b>Density</b>	19.59522
<b>VOC Content (lbs/gal)</b>	.000
<b>% Volatile by Weight</b>	.0000
<b>% Volatile by Volume</b>	.0000

**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. Reducing agents.	<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

**Component Information**

## 11. TOXICOLOGICAL INFORMATION

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg ( Rat )		
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg ( Rat )		
AMORPHOUS SILICA	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	2.2 mg/L ( Rat ) 1 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg ( Rat )		

**Irritation** No information available  
**Corrosivity** No information available  
**Sensitization** 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
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	
GLASS OXIDE		Group 1 Group 2A			
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	

**Mutagenic Effects** No information available  
**Reproductive Effects** No information available  
**Developmental Effects** No information available  
**Teratogenicity** No information available  
**Target Organ Effects** Eyes, Respiratory system, Skin, Blood, Central nervous system, Central Vascular System, Kidney, Liver, Lungs, Nasal Cavities, Prostate.  
**Endocrine Disruptor Information** No information available

## 12. ECOLOGICAL INFORMATION

*(Bad file name or number)*

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
GLASS OXIDE		LC50 5.6 - 7.4 µg/L Pimephales promelas 96 h LC50 9.4 - 9.7 µg/L Pimephales promelas 96 h LC50 24.2 - 48.4 µg/L Lepomis macrochirus 96 h		EC50 = 0.9 µg/L 48 h LC50 = 5 µg/L 96 h LC50 1.4 - 2.3 µg/L 96 h
AMORPHOUS SILICA	EC50 = 440 mg/L 72 h	LC50= 5000 mg/L Brachydanio rerio 96 h		EC50 = 7600 mg/L 48 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
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DOT Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.

15. REGULATORY INFORMATION
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International Inventories

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

U.S. Federal RegulationsSARA 313SARA 311/312 Hazardous Categorization

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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
GLASS OXIDE		X		

CERCLAU.S. State RegulationsCalifornia Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen
GLASS OXIDE	65997-17-3	Carcinogen
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X
GLASS OXIDE	X	X	X	X	X
AMORPHOUS SILICA	X		X		
CRYSTALLINE SILICA (QUARTZ)	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**

D2A Very toxic materials

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION****Revision Date:** 29-Dec-2009**Revision Summary** No information available**HMIS** Health 1 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.

To the best of our knowledge, the information contained herein is accurate. However, neither the Tnemec Company or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

**End of MSDS**