



# Material Safety Data Sheet

Preparation Date: 30-Dec-2009

Revision Date: 29-Dec-2009

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** F120-5001A  
**Trade Name** VINESTER (KIT) GRAY  
**Contact Manufacturer** Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372  
**Emergency Telephone Number** 800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### DANGER!

FLAMMABLE LIQUID AND VAPOR.  
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.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

#### Potential Health Effects

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

#### Acute Effects

**Eyes** Moderately irritating to the 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.)

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** Central nervous system, Eyes, Kidney, Liver, Lungs, Reproductive System, Respiratory system, Skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
STYRENE	100-42-5	19.4503
SILICON DIOXIDE/ALUMINUM OXIDE	66402-68-4	10 - 30
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	9.0284
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	5 - 10
METHYL ETHYL KETONE	78-93-3	2.8052
AMORPHOUS SILICA	7631-86-9	1 - 5
TOLUENE	108-88-3	1.5533
ALUMINUM OXIDES	1344-28-1	0.1 - 1
XYLENE	1330-20-7	0.2652

### 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>	Flammable.
<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.
<b>Specific Hazards Arising from the Chemical</b>	Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.
<b>Protective Equipment and Precautions for Firefighters</b>	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. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

### 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**

Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Use only in an area containing flame proof equipment. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. 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)
STYRENE	TWA: 20 ppm STEL: 40 ppm	TWA: 50 ppm TWA: 215 mg/m <sup>3</sup> STEL: 100 ppm STEL: 425 mg/m <sup>3</sup> TWA: 100 ppm Ceiling: 200 ppm	TWA: 50 ppm TWA: 213 mg/m <sup>3</sup> STEL: 426 mg/m <sup>3</sup> STEL: 100 ppm Skin	TWA: 35 ppm STEL: 100 ppm	TWA: 215 mg/m <sup>3</sup> TWA: 50 ppm STEL: 425 mg/m <sup>3</sup> STEL: 100 ppm
SILICON DIOXIDE/ALUMINUM OXIDE	TWA: 5 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 0.5 fibres/cm <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 0.2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> TWA: 0.2 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>
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>
METHYL ETHYL KETONE	TWA: 200 ppm STEL: 300 ppm	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 885 mg/m <sup>3</sup> STEL: 300 ppm	TWA: 150 mg/m <sup>3</sup> TWA: 50 ppm STEL: 100 ppm STEL: 300 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm STEL: 885 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm STEL: 885 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>
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>
XYLENE	TWA: 100 ppm STEL: 150 ppm	TWA: 435 mg/m <sup>3</sup> TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m <sup>3</sup>	TWA: 434 mg/m <sup>3</sup> TWA: 100 ppm STEL: 150 ppm STEL: 651 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 150 ppm STEL: 650 mg/m <sup>3</sup>	TWA: 435 mg/m <sup>3</sup> TWA: 100 ppm STEL: 150 ppm STEL: 655 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**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	21°C / 70.0°F
Boiling Point/Range	78 - 146°C / 172.0 - 295.0°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	1.33662
Density	11.12265
VOC Content (lbs/gal)	.631
% Volatile by Weight	5.6680
% Volatile by Volume	8.9577

## 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.	<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
STYRENE	1000 mg/kg ( Rat )		11.8 mg/L ( Rat ) 4 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg ( Rat )		
TITANIUM DIOXIDE (TOTAL DUST)	10000 mg/kg ( Rat )		
METHYL ETHYL KETONE	2737 mg/kg ( Rat )	6480 mg/kg ( Rabbit )	
AMORPHOUS SILICA	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	2.2 mg/L ( Rat ) 1 h
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
ALUMINUM OXIDES	5000 mg/kg ( Rat )		
XYLENE	4300 mg/kg ( Rat )	1700 mg/kg ( Rabbit )	47635 mg/L ( Rat ) 4 h 5000 ppm ( 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
STYRENE		Group 2B		X	
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	
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

**Teratogenicity** No information available  
**Target Organ Effects** Central nervous system, Eyes, Kidney, Liver, Lungs, Reproductive System, Respiratory system, Skin.  
**Endocrine Disruptor Information** No information available

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
STYRENE	Group I Chemical	High Exposure Concern	

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
STYRENE	EC50 = 1.4 mg/L 72 h EC50 = 0.72 mg/L 96 h	LC50= 4.02 mg/L Pimephales promelas 96 h LC50= 25.05 mg/L Lepomis macrochirus 96 h LC50= 29 mg/L Pimephales promelas 96 h	EC50 = 5.4 mg/L 5 min	EC50 = 4.7 mg/L 48 h
METHYL ETHYL KETONE		LC50= 3220 mg/L Pimephales promelas 96 h LC50= 1690 mg/L Lepomis macrochirus 96 h	EC50 = 3426 mg/L 5 min EC50 = 3403 mg/L 30 min	EC50 = 520 mg/L 48 h EC50 = 5091 mg/L 48 h
AMORPHOUS SILICA	EC50 = 440 mg/L 72 h	LC50= 5000 mg/L Brachydanio rerio 96 h		EC50 = 7600 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
XYLENE		LC50= 13.4 mg/L Pimephales promelas 96 h LC50= 8.05 mg/L Oncorhynchus mykiss 96 h LC50= 16.1 mg/L Lepomis macrochirus 96 h LC50= 26.7 mg/L Pimephales promelas 96 h	EC50 = 0.0084 mg/L 24 h	EC50 = 3.82 mg/L 48 h LC50 = 0.6 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**

**DOT Ground Transportation Only.** Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.  
**Proper Shipping Name** UN1263, PAINT, 3, PGIII, ERG 128

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies

<b>DSL/NDSL</b>	Complies
<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)**

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product contains the following HAPs:

- Component**  
 TOLUENE  
 XYLENE

**U.S. Federal Regulations**

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
STYRENE	100-42-5	19.4503	0.1
METHYL ETHYL KETONE	78-93-3	2.8052	1.0
TOLUENE	108-88-3	1.5533	1.0
XYLENE	1330-20-7	0.2652	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
STYRENE	1000 lb			X
SILICON DIOXIDE/ALUMINUM OXIDE		X		
TOLUENE	1000 lb	X	X	X
XYLENE	100 lb			X

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
STYRENE	1000 lb	
METHYL ETHYL KETONE	5000 lb	
TOLUENE	1000 lb 1 lb	
XYLENE	100 lb	

**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
TOLUENE	108-88-3	Developmental

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
STYRENE	X	X	X	X	X
SILICON		X	X		X
DIOXIDE/ALUMINUM OXIDE					
CRYSTALLINE SILICA (QUARTZ)	X	X	X		X
TITANIUM DIOXIDE (TOTAL DUST)	X	X	X		X
METHYL ETHYL KETONE	X	X	X	X	X
AMORPHOUS SILICA	X		X		
TOLUENE	X	X	X	X	X
ALUMINUM OXIDES	X	X	X		X
XYLENE	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**

B2 Flammable liquid  
D2A Very toxic materials



Component	NPRI
STYRENE	Part 1, Group 1 Substance; Part 5 Substance
METHYL ETHYL KETONE	Part 1, Group 1 Substance; Part 5 Substance
TOLUENE	Part 1, Group 1 Substance; Part 5 Substance
ALUMINUM OXIDES	Part 1, Group 1 Substance (fibrous form)
XYLENE	Part 1, Group 1 Substance; Part 5 Substance

**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 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

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code** F120-0120B  
**Trade Name** VINESTER (KIT) CONVERTER  
**Contact Manufacturer** Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372  
**Emergency Telephone Number** 800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### DANGER!

COMBUSTIBLE LIQUID AND VAPOR.  
HARMFUL IF INHALED.  
CAUSES SKIN AND EYE BURNS.  
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.  
MAY CAUSE ALLERGIC SKIN REACTION; EFFECTS MAY BE PERMANENT.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

#### Potential Health Effects

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

**Acute Effects**

<b>Eyes</b>	Causes burns.
<b>Skin</b>	Causes burns. May cause sensitization by skin contact.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	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** Central nervous system. 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** Central nervous system, Eyes, Respiratory system, Skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
CUMENE HYDROPEROXIDE	80-15-9	60 - 100
CUMENE (SKIN)	98-82-8	7.5
CUMYL ALCOHOL	617-94-7	6
ACETOPHENONE	98-86-2	1.2

### 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>	Combustible material.
<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.

#### 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. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

### 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

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. When used in a mixture, read the labels and safety data sheets of all components. Wash thoroughly after handling.

**Storage**

Close container after each use. Keep away from heat, sparks and flame. Use only in an area containing flame proof equipment. 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)
CUMENE (SKIN)	TWA: 50 ppm	TWA: 245 mg/m <sup>3</sup> TWA: 50 ppm Skin	TWA: 246 mg/m <sup>3</sup> TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> Skin	TWA: 245 mg/m <sup>3</sup> TWA: 50 ppm STEL: 365 mg/m <sup>3</sup> STEL: 75 ppm
ACETOPHENONE	TWA: 10 ppm		TWA: 49 mg/m <sup>3</sup> TWA: 10 ppm	TWA: 10 ppm	

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment****Skin Protection**

Lightweight protective clothing, Apron, Impervious gloves  
Goggles. If splashes are likely to occur, wear face-shield.

**Eye/face Protection****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	56°C / 133.0°F
Method	Pensky Martens - Closed Cup
Boiling Point/Range	152 - 153°C / 305.0 - 307.0°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	1.03331
Density	8.59867
VOC Content (lbs/gal)	1.264
% Volatile by Weight	14.7000
% Volatile by Volume	15.0098

## 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.	<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
CUMENE HYDROPEROXIDE	382 mg/kg ( Rat )	500 mg/kg ( Rat )	220 ppm ( Rat ) 4 h
CUMENE (SKIN)	1400 mg/kg ( Rat )	3160 mg/kg ( Rabbit )	39000 mg/m <sup>3</sup> ( Rat ) 4 h
CUMYL ALCOHOL	1300 mg/kg ( Rat )	4300 mg/kg ( Rabbit )	
ACETOPHENONE	815 mg/kg ( Rat )	1760 mg/kg ( Rabbit )	

<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

<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>	Central nervous system, Eyes, Respiratory system, Skin.
<b>Endocrine Disruptor Information</b>	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
CUMENE HYDROPEROXIDE		LC50= 3.9 mg/L Oncorhynchus mykiss 96 h		EC50 = 7 mg/L 24 h
CUMENE (SKIN)	EC50 = 2.6 mg/L 72 h	LC50= 6.32 mg/L Pimephales promelas 96 h LC50= 4.8 mg/L Oncorhynchus mykiss 96 h LC50= 5.1 mg/L Poecilia reticulata 96 h	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	EC50 = 0.6 mg/L 48 h
ACETOPHENONE		LC50= 162 mg/L Pimephales promelas 96 h LC50= 155 mg/L Pimephales promelas 96 h	EC50 = 15.5 mg/L 15 min	

## 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.

14. TRANSPORT INFORMATION

**Proper Shipping Name** UN3109,ORGANIC PEROXIDE,TYPE F,LIQUID,(CUMYL HYDROPEROXIDE <90%),5.2(8),PGII, ERG 145

15. REGULATORY INFORMATION

International Inventories

TSCA Complies  
 DSL/NDSL Complies  
 EINECS/ELINCS Complies  
 CHINA Complies  
 ENCS Complies  
 KECL Complies  
 PICCS Complies  
 AICS Complies

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

This product contains the following HAPs:

**Component**  
 CUMENE (SKIN)  
 ACETOPHENONE

U.S. Federal Regulations

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
CUMENE HYDROPEROXIDE	80-15-9	60 - 100	1.0
CUMENE (SKIN)	98-82-8	7.5	1.0
ACETOPHENONE	98-86-2	1.2	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

Component	Hazardous Substances RQs	CERCLA EHS RQs
CUMENE HYDROPEROXIDE	10 lb	
CUMENE (SKIN)	5000 lb	
ACETOPHENONE	5000 lb	

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
CUMENE HYDROPEROXIDE	X	X	X		X

CUMENE (SKIN)	X	X	X	X	X
ACETOPHENONE	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**

- B3 Combustible liquid
- C Oxidizing materials
- D2B Toxic materials
- E Corrosive material



Component	NPRI
CUMENE HYDROPEROXIDE	Part 1, Group 1 Substance
CUMENE (SKIN)	Part 1, Group 1 Substance
ACETOPHENONE	Part 1, Group 1 Substance

**Legend**

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date: 29-Dec-2009

Revision Summary: No information available

HMIS Health 3 Flammability 2 Reactivity 2

**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