TNEMEC

Material Safety Data Sheet

Print Date 22-Apr-2013 Revision Date 02-Jan-2013 Revision Number 4

1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES 120 / SERIES 251 PART A

Product code F120-5002A

Trade name VINESTER (KIT) BEIGE Product Class VINYL ESTER PAINT

ManufacturerTnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372Emergency telephone800-535-5053 (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. Respiratory

disorders.

Interactive effectsUse 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 %
SILICON DIOXIDE/ALUMINUM OXIDE	66402-68-4	10 - 30
STYRENE	100-42-5	10 - 30
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	5 - 10
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	1 - 5
2-BUTANONE	-	1 - 5
METHYLBENZENE	-	1 - 5
ETHYL BENZENE	100-41-4	0.1 - 1
ALUMINUM HYDROXIDE	21645-51-2	0.1 - 1

4. FIRST AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water.

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

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed.

5. FIRE-FIGHTING MEASURES

Flammable properties Flammable.

surrounding environment. Contact with water may cause violent frothing. Use: Carbon

dioxide (CO2) - 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

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system.

Methods for cleaning up

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.

Other information

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)
SILICON	TWA: 5 mg/m ³ TWA:		TWA: 5 mg/m ³	TWA: 5 mg/m ³ TWA:	TWA: 5 mg/m³ TWA:
DIOXIDE/ALUMINUM	0.02 mg/m ³ TWA: 0.1		STEL: 10 mg/m ³	0.2 mg/m ³	0.2 mg/m ³
OXIDE	mg/m³			STEL: 10 mg/m ³	STEL: 10 mg/m ³
STYRENE	TWA: 20 ppm	TWA: 50 ppm TWA:	TWA: 50 ppm TWA:	TWA: 35 ppm	TWA: 50 ppm TWA:
	STEL: 40 ppm	215 mg/m ³	213 mg/m ³	STEL: 100 ppm	215 mg/m ³
					STEL: 100 ppm STEL:
		425 mg/m ³	426 mg/m ³		425 mg/m ³
		TWA: 100 ppm	Skin		
		Ceiling: 200 ppm			
CRYSTALLINE SILICA (QUARTZ)	TWA: 0.025 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.10 mg/m ³	TWA: 0.1 mg/m ³
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
(TOTAL DUST)		TWA: 15 mg/m ³			STEL: 20 mg/m ³
2-BUTANONE	TWA: 200 ppm	TWA: 200 ppm TWA:	TWA: 50 ppm TWA:	TWA: 200 ppm	TWA: 200 ppm TWA:
	STEL: 300 ppm	590 mg/m ³	150 mg/m ³	STEL: 300 ppm	590 mg/m ³
		STEL: 300 ppm STEL:	STEL: 100 ppm STEL:		STEL: 300 ppm STEL:
		885 mg/m ³	300 mg/m ³		885 mg/m ³
METHYLBENZENE	TWA: 20 ppm	TWA: 100 ppm TWA:	TWA: 50 ppm TWA:	TWA: 20 ppm	TWA: 50 ppm TWA:
		375 mg/m ³	188 mg/m ³		188 mg/m ³
		STEL: 150 ppm STEL:	Skin		
		560 mg/m ³			
		TWA: 200 ppm			
ETINA DENZENE	TIA/A 00	Ceiling: 300 ppm	TIA/A 400 TIA/A	TIMA 00	TIA/A 400
ETHYL BENZENE	TWA: 20 ppm	TWA: 100 ppm TWA:	TWA: 100 ppm TWA:	TWA: 20 ppm	TWA: 100 ppm TWA:
		435 mg/m ³ STEL: 125 ppm STEL:	434 mg/m³ STEL: 125 ppm STEL:		435 mg/m ³ STEL: 125 ppm STEL:
		545 mg/m ³	543 mg/m ³		545 mg/m ³
ALUMINUM HYDROXIDE	TWA: 1 mg/m ³	J45 mg/m²	545 mg/m²	TWA: 1 mg/m ³	545 mg/m²

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.

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 21 °C / 70.0 °F

Boiling range 78 - 146.000 °C / 172.0 - 295.0 °F

Upper explosion limitNo information availableLower explosion limitNo information availableEvaporation rateNo information availableVapor pressureNo information availableVapor densityNo information availableSpecific Gravity1.29194 g/cm3Density10.75092 lbs/gal

Volatile organic compounds (VOC) content .581 lbs/gal Volatile by weight 5.3680 %

Volatile by weight5.3680%Volatile by volume8.2008%

10. STABILITY AND REACTIVITY

Chemical stabilityStable.Conditions to avoidHeat, flames and sparks.Incompatible productsStrong oxidizing agents. Acids.Possibility of hazardous reactionsNone 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)		
2-BUTANONE			23500 mg/m³ (Rat)8 h
METHYLBENZENE	636 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h 26700 ppm (Rat) 1 h
ETHYL BENZENE	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
ALUMINUM HYDROXIDE	5000 mg/kg (Rat)		

IrritationNo information availableCorrosivityNo information available.SensitizationNo 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	Reasonably	X	
			Anticipated		

	CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	Х	
	TITANIUM DIOXIDE (TOTAL DUST)		Group 2B		Х	
Γ	ETHYL BENZENE	A3	Group 2B		X	

MutegenicityNo information available.Reproductive effectsNo information available.Developmental effectsNo information available.TeratogenicityNo information available.

Target Organ Effects Central nervous system, Eyes, Kidney, Liver, Lungs, Reproductive System, Respiratory

system, Skin.

Endocrine Disruptor Information No information available

Ī	Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Ī	STYRENE 100-42-5 (10 - 30)	Group I Chemical	High Exposure Concern	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
STYRENE	EC50 = 1.4 mg/L 72 h EC50 = 0.72 mg/L 96 h EC50 0.46 - 4.3 mg/L 72 h EC50 0.15 - 3.2 mg/L 96 h	Lepomis macrochirus 96 h	EC50 = 5.4 mg/L 5 min	EC50 3.3 - 7.4 mg/L 48 h
2-BUTANONE		LC50 3130 - 3320 mg/L Pimephales promelas 96 h	EC50 = 3426 mg/L 5 min EC50 = 3403 mg/L 30 min	EC50 4025 - 6440 mg/L 48 h EC50 = 5091 mg/L 48 h EC50 > 520 mg/L 48 h
METHYLBENZENE	EC50 > 433 mg/L 96 h EC50 = 12.5 mg/L 72 h	LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L Oncorhynchus mykiss 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h LC50= 12.6 mg/L Pimephales promelas 96 h LC50= 28.2 mg/L Poecilia reticulata 96 h LC50= 5.8 mg/L Oncorhynchus mykiss 96 h LC50= 54 mg/L Oryzias latipes 96 h	EC50 = 19.7 mg/L 30 min	EC50 5.46 - 9.83 mg/L 48 h EC50 = 11.5 mg/L 48 h

ETHYL BENZENE	EC50 = 4.6 mg/L 72 h EC50	LC50 11.0 - 18.0 mg/L	EC50 = 9.68 mg/L 30 min	EC50 1.8 - 2.4 mg/L 48 h
	> 438 mg/L 96 h EC50 2.6 -	Oncorhynchus mykiss 96 h	EC50 = 96 mg/L 24 h	
	11.3 mg/L 72 h EC50 1.7 -	LC50 7.55 - 11 mg/L	_	
	7.6 mg/L 96 h	Pimephales promelas 96 h		
		LC50 9.1 - 15.6 mg/L		
		Pimephales promelas 96 h		
		LC50= 32 mg/L Lepomis		
		macrochirus 96 h LC50= 4.2		
		mg/L Oncorhynchus mykiss		
		96 h LC50= 9.6 mg/L		
		Poecilia reticulata 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

UN1263,PAINT,3,PGIII,ERG 128

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL/NDSLDoes not ComplyEINECS/ELINCSDoes not ComplyCHINAComplies

ENCSDoes not ComplyKECLDoes not ComplyPICCSDoes not ComplyAICSDoes not Comply

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Component HAPS Data

STYRENE

METHYLBENZENE

ETHYL BENZENE

United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
SILICON DIOXIDE/ALUMINUM OXIDE	66402-68-4	10 - 30	1.0
STYRENE	100-42-5	10 - 30	0.1
2-BUTANONE		1 - 5	1.0
METHYLBENZENE		1 - 5	1.0
ETHYL BENZENE	100-41-4	0.1 - 1	0.1

SARA 311/312 Hazardous Categorization

Chronic Health HazardyesAcute Health HazardyesFire HazardyesSudden Release of Pressure HazardnoReactive Hazardno

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
SILICON DIOXIDE/ALUMINUM OXIDE 66402-68-4 (10 - 30)		X		
STYRENE 100-42-5 (10 - 30)	1000 lb			X
METHYLBENZENE (1-5)	1000 lb	X	Х	Х
ETHYL BENZENE 100-41-4 (0.1 - 1)	1000 lb	Х	Х	Х

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
STYRENE	1000 lb	
2-BUTANONE	5000 lb	
METHYLBENZENE	1000 lb 1 lb	
ETHYL BENZENE	1000 lb	

United States of America State Regulations

California Prop. 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	Carcinogen
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	Carcinogen
METHYLBENZENE		Developmental
		Female Reproductive
ETHYL BENZENE	100-41-4	Carcinogen

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
SILICON DIOXIDE/ALUMINUM OXIDE		Х	X		
STYRENE	X	Х	X	X	
CRYSTALLINE SILICA (QUARTZ)	Х	Х	Х	Х	
TITANIUM DIOXIDE (TOTAL DUST)	X	X	Х		
2-BUTANONE	X	Х	Х	X	
METHYLBENZENE	Х	Х	Х	Х	
ETHYL BENZENE	X	Х	Х	Х	

Other international regulations

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

WHMIS Classification

B2 Flammable liquid D2A Very toxic materials





Component	NPRI
STYRENE	Part 1, Group 1 Substance; Part 5 Substance
2-BUTANONE	Part 1, Group 1 Substance; Part 5 Substance
METHYLBENZENE	Part 1, Group 1 Substance; Part 5 Substance
ETHYL BENZENE	Part 1, Group 1 Substance

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date 02-Jan-2013

Revision Note No information available

HMIS (Hazardous Material Health 2* Flammability 3 Reactivity 1

Information System)

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



Material Safety Data Sheet

Print Date 22-Apr-2013 Revision Date 02-Jan-2013 Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES 120 / SERIES 251 PART B

Product code F120-0120B

Trade nameVINESTER (KIT) CONVERTER **Product Class**ORGANIC PEROXIDE CATALYST

ManufacturerTnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372Emergency telephone800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!

COMBUSTIBLE LIQUID AND VAPOR CAUSES SKIN AND EYE BURNS HARMFUL OR FATAL IF SWALLOWED HARMFUL IF INHALED

MAY CAUSE ALLERGIC SKIN REACTION; EFFECTS MAY BE PERMANENT
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 Causes burns.

Skin Causes burns. May cause sensitization by skin contact.

InhalationIrritating to respiratory system.IngestionMay 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. Respiratory disorders.

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

Hazardous Components

Component	CAS-No	Weight %
CUMENE HYDROPEROXIDE	80-15-9	60 - 100
CUMYL ALCOHOL	617-94-7	5 - 10
(1-METHYLETHYL)BENZENE	-	5 - 10
ACETOPHENONE	98-86-2	1 - 5

4. FIRST AID MEASURES

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water.

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

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed.

5. FIRE-FIGHTING MEASURES

Flammable properties Combustible material.

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. Contact with water may cause violent frothing. Use: Carbon

dioxide (CO2) - 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

Personal precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all

sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system.

Methods for cleaning up 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.

Not applicable Other information

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)
(1-METHYLETHYL)BENZE NE	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ Skin	TWA: 50 ppm TWA: 246 mg/m ³	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ STEL: 75 ppm STEL: 365 mg/m³
ACETOPHENONE	TWA: 10 ppm		TWA: 10 ppm TWA: 49 mg/m ³	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

Boiling range 152 - 153.000 °C / 305.0 - 307.0 °F

Upper explosion limit No information available Lower explosion limit No information available **Evaporation rate** No information available Vapor pressure No information available Vapor density No information available

Specific Gravity 1.03331 g/cm3 **Density** 8.59867 lbs/gal Volatile organic compounds (VOC) content 1.075 lbs/gal

Volatile by weight 12.5000 % Volatile by volume 12.3023 %

10. STABILITY AND REACTIVITY

Chemical stability Stable. Conditions to avoid Heat, flames and sparks.

Incompatible products

Strong oxidizing agents. Acids. Possibility of hazardous

None under normal processing

Alkalines.

reactions

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
(1-METHYLETHYL)BENZENE	1400 mg/kg (Rat)	12300 μL/kg (Rabbit)	
ACETOPHENONE		1760 mg/kg (Rabbit)	

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
(1-METHYLETHYL)BENZE		Group 2B		Χ	
l` NE		·			

No information available. Mutegenicity Reproductive effects No information available. Developmental effects No information available. **Teratogenicity** No information available.

Target Organ Effects Central nervous system, Eyes, Respiratory system, Skin.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
CUMENE		LC50= 3.9 mg/L		EC50 = 7 mg/L 24 h
HYDROPEROXIDE		Oncorhynchus mykiss 96 h		
(1-METHYLETHYL)BENZE	EC50 = 2.6 mg/L 72 h	LC50 6.04 - 6.61 mg/L	EC50 = 0.89 mg/L 5 min	EC50 7.9 - 14.1 mg/L 48 h
NE		Pimephales promelas 96 h	EC50 = 1.10 mg/L 15 min	EC50 = 0.6 mg/L 48 h
		LC50= 2.7 mg/L	EC50 = 1.48 mg/L 30 min	_
		Oncorhynchus mykiss 96 h	EC50 = 172 mg/L 24 h	
		LC50= 4.8 mg/L		
		Oncorhynchus mykiss 96 h		
		LC50= 5.1 mg/L Poecilia		
		reticulata 96 h		
ACETOPHENONE		LC50= 155 mg/L	EC50 = 15.5 mg/L 15 min	
		Pimephales promelas 96 h		
		LC50= 162 mg/L		
		Pimephales promelas 96 h		

13. DISPOSAL CONSIDERATIONS

Keep container tightly closed. If spilled, contain spilled material and remove with inert Waste disposal methods

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 UN3109, ORGANIC PEROXIDE, TYPE F, LIQUID, (CUMYL HYDROPEROXIDE

<90%),5.2(8),PGII, ERG 145

15. REGULATORY INFORMATION

International Inventories

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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61): HAPS Data Component

(1-METHYLETHYL)BENZENE

ACETOPHENONE

United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
CUMENE HYDROPEROXIDE	80-15-9	60 - 100	1.0
(1-METHYLETHYL)BENZENE		5 - 10	1.0
ACETOPHENONE	98-86-2	1 - 5	1.0

SARA 311/312 Hazardous Categorization

Chronic Health Hazard	yes
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	
(1-METHYLETHYL)BENZENE	5000 lb	

ACETOPHENONE 5000 lb

United States of America State Regulations

California Prop. 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
(1-METHYLETHYL)BENZENE		Carcinogen

California SCAQMD Rule 443

Contains Photochemically Reactive Solvent

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
CUMENE	Χ	X	Х		
HYDROPEROXIDE					
(1-METHYLETHYL)BENZE	Χ	X	X	Χ	
NE					
ACETOPHENONE	X	X	X	X	

Other international regulations

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

WHMIS Classification

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







Component	NPRI	
CUMENE HYDROPEROXIDE	Part 1, Group 1 Substance	
(1-METHYLETHYL)BENZENE	Part 1, Group 1 Substance	
ACETOPHENONE	Part 1, Group 1 Substance	

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date 02-Jan-2013

Revision Note No information available

HMIS (Hazardous Material Health 3 Flammability 2 Reactivity 2

Information System)

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