Material Safety Data Sheet

Preparation Date: 30-Dec-2009 **Revision Date:** 29-Dec-2009 **Revision Number:** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code F161-11WHA
Trade Name TNEME-FASCURE WHITE

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.
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

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 Central nervous system. Skin disorders. Gastrointestinal tract. Kidney disorders. Liver 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, Central Vascular System, Eyes, Lungs, Respiratory system, Skin, Blood, Gastrointestinal tract, Kidney, Liver

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component	CAS-No	Weight %
BARIUM SULFATE (TOTAL DUST)	7727-43-7	10 - 30
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	10 - 30
POLYAMIDE RESIN	68410-23-1	10 - 30
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
XYLENE	1330-20-7	10.0965
N-BUTANOL (SKIN)	71-36-3	8.6023
ETHYL BENZENE	100-41-4	2.3436
MODIFIED ALIPHATIC AMINE	90-72-2	1 - 5
AMORPHOUS SILICA	7631-86-9	1 - 5
ALUMINUM OXIDES	1344-28-1	1 - 5
TRIETHYLENE TETRAMINE	112-24-3	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.

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. Oxides of nitrogen. Aldehydes.

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)
BARIUM SULFATE (TOTAL DUST)	TWA: 10 mg/m^3 TWA: 0.5 mg/m^3	TWA: 5 mg/m^3 TWA: 10 mg/m^3 TWA: 15 mg/m^3	TWA: 10 ppm TWA: 5 ppm TWA: 0.5 mg/m^3	TWA: 10 mg/m^3	TWA: 0.5 mg/m^3
TITANIUM DIOXIDE (TOTAL DUST)	TWA: 10 mg/m^3	TWA: 10 mg/m^3 TWA: 15 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3 STEL: 20 mg/m^3
TALC (RESPIRABLE DUST)	TWA: 2 mg/m^3	TWA: 2 mg/m^3	TWA: 3 mg/m^3	TWA: 2 mg/m^3	TWA: 2 mg/m^3
XYLENE	TWA: 100 ppm STEL: 150 ppm	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m^3	TWA: 434 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 651 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 150 ppm STEL: 650 mg/m^3	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m^3
N-BUTANOL (SKIN)	TWA: 20 ppm	Skin Ceiling: 50 ppm Ceiling: 150 mg/m^3 TWA: 100 ppm TWA: 300 mg/m^3	Ceiling: 152 mg/m^3 Ceiling: 50 ppm Skin	TWA: 20 ppm	Peak: 150 mg/m^3 Peak: 50 ppm
ETHYL BENZENE	TWA: 100 ppm STEL: 125 ppm	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 545 mg/m^3 STEL: 125 ppm	TWA: 434 mg/m^3 TWA: 100 ppm STEL: 125 ppm STEL: 543 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 540 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3
ALUMINUM OXIDES	TWA: 1 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3 TWA: 15 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3	TWA: 10 mg/m^3
TRIETHYLENE TETRAMINE				TWA: 3 mg/m^3 TWA: 0.5 ppm Skin	

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Skin Protection Lightweight protective clothing, Apron, Impervious gloves

Eye/face Protection Goggles. If splashes are likely to occur, wear face-shield.

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 28°C / 82.0°F

Boiling Point/Range 116 - 142°C / 241.0 - 288.0°F

Upper Exposure Limits No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Lower Exposure Limits	No information available
Evaporation Rate	No information available
Vapour Pressure	No information available
Vapour Density	No information available
Specific Gravity	1.68147
Density	13.99237
VOC Content (lbs/gal)	2.944
% Volatile by Weight	21.0420
% Volatile by Volume	41.8470

10. STABILITY AND REACTIVITY

Chemical stability	Stable.	**Conditions to Avoid**	Heat, flames and sparks. Epoxy constituents.
Incompatible Products	Strong oxidizing agents. Bases. Acids. Water, alcohols, amines, strong bases, metal components, surface active materials.	**Possibility of Hazardous Reactions**	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)		
XYLENE	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	47635 mg/L (Rat) 4 h 5000 ppm (Rat) 4 h
N-BUTANOL (SKIN)	790 mg/kg (Rat)	3400 mg/kg (Rabbit)	8000 ppm (Rat) 4 h 17.7 mg/L (Rat) 4 h
ETHYL BENZENE	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
MODIFIED ALIPHATIC AMINE	1000 mg/kg (Rat)	1280 mg/kg (Rat)	
AMORPHOUS SILICA	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	2.2 mg/L (Rat) 1 h
ALUMINUM OXIDES	5000 mg/kg (Rat)		
TRIETHYLENE TETRAMINE	2500 mg/kg (Rat)	550 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
TITANIUM DIOXIDE (TOTAL DUST)		Group 2B		X	
ETHYL BENZENE	A3	Group 2B		X	

Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Teratogenicity	No information available

Target Organ Effects Central nervous system, Central Vascular System, Eyes, Lungs, Respiratory system, Skin, Blood, Gastrointestinal tract, Kidney, Liver.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio rerio 96 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
N-BUTANOL (SKIN)	EC50 > 500 mg/L 96 h EC50 > 500 mg/L 72 h	LC50= 1510 mg/L Pimephales promelas 96 h LC50= 1740 mg/L Pimephales promelas 96 h LC50= 1200 mg/L Leuciscus idus 96 h	EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30 min EC50 = 4400 mg/L 17 h EC50 = 3980 mg/L 24 h	EC50 = 1983 mg/L 48 h
ETHYL BENZENE	EC50 = 4.6 mg/L 72 h EC50 > 438 mg/L 96 h	LC50= 14.0 mg/L Oncorhynchus mykiss 96 h LC50= 9.09 mg/L Pimephales promelas 96 h LC50= 150.0 mg/L Lepomis macrochirus 96 h LC50= 4.2 mg/L Oncorhynchus mykiss 96 h LC50= 32 mg/L Lepomis macrochirus 96 h LC50= 48.5 mg/L Pimephales promelas 96 h LC50= 9.6 mg/L Poecilia reticulata 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 1.8 - 2.4 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
TRIETHYLENE TETRAMINE	EC50 = 2.5 mg/L 72 h EC50 = 20 mg/L 72 h	LC50= 570 mg/L Poecilia reticulata 96 h LC50= 495 mg/L Pimephales promelas 96 h		EC50 = 31.1 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

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International Inventories

TSCA	Complies
DSL/NDSL	Complies
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:
Component
XYLENE
ETHYL BENZENE

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
XYLENE	1330-20-7	10.0965	1.0
N-BUTANOL (SKIN)	71-36-3	8.6023	1.0
ETHYL BENZENE	100-41-4	2.3436	0.1

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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
XYLENE	100 lb			X
ETHYL BENZENE	1000 lb	X	X	X

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
XYLENE	100 lb	
N-BUTANOL (SKIN)	5000 lb	
ETHYL BENZENE	1000 lb	

U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
ETHYL BENZENE	100-41-4	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
BARIUM SULFATE (TOTAL DUST)	X	X	X		X
TITANIUM DIOXIDE (TOTAL DUST)	X	X	X		X
TALC (RESPIRABLE DUST)	X	X	X		X
XYLENE	X	X	X	X	X
N-BUTANOL (SKIN)	X	X	X		X
ETHYL BENZENE	X	X	X	X	X
AMORPHOUS SILICA	X		X		
ALUMINUM OXIDES	X	X	X		X
TRIETHYLENE TETRAMINE	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
E Corrosive material

Component	NPRI
XYLENE	Part 1, Group 1 Substance; Part 5 Substance
N-BUTANOL (SKIN)	Part 1, Group 1 Substance
ETHYL BENZENE	Part 1, Group 1 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** 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 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

Preparation Date: 04-Jan-2010 **Revision Date:** 29-Dec-2009 **Revision Number:** 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code	B066-0066B
Trade Name	F65/66/160/161 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!

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 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

Eyes	Moderately irritating to the eyes.
Skin	Irritating to skin. 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 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, Central Vascular System, Eyes, Kidney, Liver, Respiratory system, Skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component	CAS-No	Weight %
TALC (RESPIRABLE DUST)	14807-96-6	30 - 60
BISPHENOL A TYPE EPOXY RESIN	67924-34-9	10 - 30
METHYL ISOBUTYL KETONE	108-10-1	15.335
BISPHENOL A TYPE EPOXY RESIN		10 - 30
XYLENE	1330-20-7	10.6935
ETHYL BENZENE	100-41-4	0.4038

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.

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. Aldehydes.

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)
TALC (RESPIRABLE DUST)	TWA: 2 mg/m^3	TWA: 2 mg/m^3	TWA: 3 mg/m^3	TWA: 2 mg/m^3	TWA: 2 mg/m^3
METHYL ISOBUTYL KETONE	TWA: 50 ppm STEL: 75 ppm	TWA: 205 mg/m^3 TWA: 50 ppm STEL: 300 mg/m^3 STEL: 75 ppm TWA: 100 ppm TWA: 410 mg/m^3	TWA: 205 mg/m^3 TWA: 50 ppm STEL: 307 mg/m^3 STEL: 75 ppm	TWA: 205 mg/m^3 TWA: 50 ppm STEL: 75 ppm	TWA: 50 ppm TWA: 205 mg/m^3 STEL: 307 mg/m^3 STEL: 75 ppm
XYLENE	TWA: 100 ppm STEL: 150 ppm	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m^3	TWA: 434 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 651 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 150 ppm STEL: 650 mg/m^3	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 150 ppm STEL: 655 mg/m^3
ETHYL BENZENE	TWA: 100 ppm STEL: 125 ppm	TWA: 435 mg/m^3 TWA: 100 ppm STEL: 545 mg/m^3 STEL: 125 ppm	TWA: 434 mg/m^3 TWA: 100 ppm STEL: 125 ppm STEL: 543 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 540 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3

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	18°C / 64.0°F
Boiling Point/Range	114 - 142°C / 237.0 - 288.0°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	1.28267
Density	10.67371
VOC Content (lbs/gal)	2.896
% Volatile by Weight	27.1250
% Volatile by Volume	42.0116

10. STABILITY AND REACTIVITY

Chemical stability Stable.

Conditions to Avoid Heat, flames and sparks. Amines.

Incompatible Products Strong oxidizing agents. Bases. Acids. Amines.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL ISOBUTYL KETONE	2080 mg/kg (Rat)	16000 mg/kg (Rabbit)	8.2 mg/L (Rat) 4 h
XYLENE	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	47635 mg/L (Rat) 4 h 5000 ppm (Rat) 4 h
ETHYL BENZENE	3500 mg/kg (Rat)	15354 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h

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
ETHYL BENZENE	A3	Group 2B		X	

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio rerio 96 h		
METHYL ISOBUTYL KETONE	EC50 = 400 mg/L 96 h	LC50= 505 mg/L Pimephales promelas 96 h	EC50 = 79.6 mg/L 5 min	EC50 = 4280.0 mg/L 24 h EC50 = 170 mg/L 48 h

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
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
ETHYL BENZENE	EC50 = 4.6 mg/L 72 h EC50 > 438 mg/L 96 h	LC50= 14.0 mg/L Oncorhynchus mykiss 96 h LC50= 9.09 mg/L Pimephales promelas 96 h LC50= 150.0 mg/L Lepomis macrochirus 96 h LC50= 4.2 mg/L Oncorhynchus mykiss 96 h LC50= 32 mg/L Lepomis macrochirus 96 h LC50= 48.5 mg/L Pimephales promelas 96 h LC50= 9.6 mg/L Poecilia reticulata 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 1.8 - 2.4 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
DSL/NDSL	Complies
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:
Component
METHYL ISOBUTYL KETONE
XYLENE
ETHYL BENZENE

U.S. Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
METHYL ISOBUTYL KETONE	108-10-1	15.335	1.0
XYLENE	1330-20-7	10.6935	1.0
ETHYL BENZENE	100-41-4	0.4038	0.1

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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
XYLENE	100 lb			X
ETHYL BENZENE	1000 lb	X	X	X

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
METHYL ISOBUTYL KETONE	5000 lb	
XYLENE	100 lb	
ETHYL BENZENE	1000 lb	

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
ETHYL BENZENE	100-41-4	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TALC (RESPIRABLE DUST)	X	X	X		X
METHYL ISOBUTYL KETONE	X	X	X	X	X
XYLENE	X	X	X	X	X
ETHYL BENZENE	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
METHYL ISOBUTYL KETONE	Part 1, Group 1 Substance; Part 5 Substance
XYLENE	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: 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 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