

# **Material Safety Data Sheet**

Print Date 05-May-2011 Revision Date 05-May-2011 Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES N140 PART A
Product code N140-11WHA

Trade name POTA-POX PLUS WHITE

Product Class POLYAMINE AMIDO AMINE PAINT

Manufacturer Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372 Emergency telephone 800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

#### 2. HAZARDS IDENTIFICATION

# **Emergency Overview**

## DANGER!

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

MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.

MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.

MAY 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. Respirable crystalline silica (quartz) can cause silicosis, a

fibrosis (scarring) of the lungs. May be harmful if swallowed.

#### **Chronic effects**

Ingestion

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. Skin disorders. Gastrointestinal tract. Kidney disorders. Liver

disorders. Respiratory disorders.

**Interactive effects**Use of alcoholic beverages may enhance toxic effects.

Potential environmental effects See Section 12 for additional Ecological Information

Central nervous system, Central Vascular System (CVS), Eyes, Lungs, Respiratory system, Skin, Blood, Gastrointestinal tract, Kidney, Liver

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Components** 

**Target Organ Effects** 

Component	CAS-No	Weight %
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	10 - 30
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	10 - 30
XYLENE	1330-20-7	10 - 30
BENZYL ALCOHOL	100-51-6	5 - 10
N-BUTANOL (SKIN)	71-36-3	1 - 5
ETHYL BENZENE	100-41-4	1 - 5
ISOPHORONE DIAMINE	2855-13-2	1 - 5
AMORPHOUS SILICA	7631-86-9	1 - 5
ALUMINUM OXIDES	1344-28-1	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 Flammable.

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)
TALC (RESPIRABLE DUST)	: 2 mg/m³ TWA	: 2 mg/m <sup>3</sup> TWA (<1%	TWA: 3 mg/m <sup>3</sup> TWAEV	TWA: 2 mg/m <sup>3</sup> TWA	: 2 mg/m³ TWA
	(particulate matter	Crystalline silica,	(respirable dust)	(containing no Asbestos	(respirable fraction)
	containing no asbestos	containing no Asbestos,		and <1% Crystalline	
	and <1% crystalline	respirable dust)		silica, respirable)	
	silica, respirable fraction)		T14/4 40 / 3	T14/4 40 / 3 T14/4	40 (37)4(4 (77)
TITANIUM DIOXIDE (TOTAL	: 10 mg/m³ TWA	: 10 mg/m³ TWA (total	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m³ TWA	: 10 mg/m³ TWA (as Ti)
DUST)		dust): 15 mg/m³ TWA	TWAEV (total dust,	(total dust)	: 20 mg/m³ STEL (as Ti)
		(total dust)	containing no asbestos and less than 1%		
			crystalline silica)		
CRYSTALLINE SILICA	: 0.025 mg/m <sup>3</sup> TWA	: 0.1 mg/m³ TWA	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m³ TWA	: 0.1 mg/m³ TWA
(QUARTZ)	(respirable fraction)	(respirable dust)	TWAEV (respirable	(designated substance	(respirable fraction)
(467.111.2)	(roopirable fraction)	(roopirable dast)	dust)	regulation, respirable)	(respirable fraction)
XYLENE	: 100 ppm TWA : 150	: 100 ppm TWA; 435	TWA: 100 ppm	TWA: 100 ppm TWA	: 100 ppm TWA; 435
	ppm STEL	mg/m <sup>3</sup> TWA: 150 ppm	TWAEV; 434 mg/m <sup>3</sup>	STEL: 150 ppm STEL	mg/m³ TWA : 150 ppm
		STEL; 655 mg/m <sup>3</sup> STEL			STEL; 655 mg/m <sup>3</sup> STEL
			ppm STEV; 651 mg/m <sup>3</sup>		_
			STEV		
N-BUTANOL (SKIN)	: 20 ppm TWA	Skin: 50 ppm Ceiling;	Ceiling: 50 ppm Ceiling;	TWA: 20 ppm TWA	: 50 ppm Peak; 150
		150 mg/m <sup>3</sup> Ceiling : 100	152 mg/m³ Ceiling Skin		mg/m³ Peak
		ppm TWA; 300 mg/m <sup>3</sup>			
		TWA			
ETHYL BENZENE	: 100 ppm TWA : 125	: 100 ppm TWA; 435	TWA: 100 ppm	TWA: 100 ppm TWA	: 100 ppm TWA; 435
	ppm STEL	mg/m³ TWA : 125 ppm	TWAEV; 434 mg/m <sup>3</sup>	STEL: 125 ppm STEL	mg/m³ TWA : 125 ppm
		STEL; 545 mg/m <sup>3</sup> STEL			STEL; 545 mg/m <sup>3</sup> STEL
			ppm STEV; 543 mg/m <sup>3</sup> STEV		
ALUMINUM OXIDES	TWA: 1 mg/m <sup>3</sup>	: 10 mg/m³ TWA (total	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	: 10 mg/m³ TWA
ALGIVIII VOIVI OXIDES	1 WA. 1 IIIg/III	dust); 5 mg/m <sup>3</sup> TWA	TWAEV (total dust,	1 VV A. 10 IIIg/III	. To mg/m TVVA
		(respirable fraction): 15	containing no asbestos		
		mg/m <sup>3</sup> TWA (total dust);			
		5 mg/m <sup>3</sup> TWA	crystalline silica, as Al)		
		(respirable fraction)	,		

**Engineering measures** Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment** 

Skin protection Lightweight protective clothing, Apron, Impervious gloves Eve/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 26°C / 78.0°F

Boiling range 116 - 142°C / 241.0 - 288.0°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** 1.64582 g/cm3

**Density** 13.69567 lbs/gal Volatile organic compounds (VOC) content 2.636 lbs/gal Volatile by weight 19.2490 %

Volatile by volume 36.8285 %

## 10. STABILITY AND REACTIVITY

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

constituents.

Incompatible products Strong oxidizing agents. Bases. Possibility of hazardous

Acids. Cleaning solutions such as Chromerge and Aqua Regia. 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)		
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		
XYLENE	4300 mg/kg ( Rat )	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L ( Rat) 4 h
BENZYL ALCOHOL	1230 mg/kg (Rat)	2000 mg/kg (Rabbit)	8.8 mg/L (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
ISOPHORONE DIAMINE	1030 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)		

IrritationNo information availableCorrosivityNo information availableSensitizationNo information available

# **Chronic toxicity**

<u>Carcinogenicity</u> The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	ACGIH	IARC	NTP	OSHA	Mexico
TITANIUM DIOXIDE (TOTAL		Group 2B		X	
DUST)		-			
CRYSTALLINE SILICA	A2	Group 1	Known	X	
(QUARTZ)		-			
ETHYL BENZENE	A3	Group 2B		Χ	

MutegenicityNo information availableReproductive effectsNo information availableDevelopmental effectsNo information availableTeratogenicityNo information available

Target Organ Effects Central nervous system, Central Vascular System (CVS), 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	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio rerio 96 h		
XYLENE		LC50= 13.4 mg/L Pimephales promelas 96 h LC50 2.661-4.093 mg/L Oncorhynchus mykiss 96 h LC50 13.5-17.3 mg/L Oncorhynchus mykiss 96 h LC50 13.1-16.5 mg/L Lepomis macrochirus 96 h LC50= 19 mg/L Lepomis macrochirus 96 h LC50 7.711-9.591 mg/L Lepomis macrochirus 96 h LC50 23.53-29.97 mg/L Pimephales promelas 96 h LC50= 780 mg/L Cyprinus carpio 96 h LC50> 780 mg/L Cyprinus carpio 96 h LC50 30.26-40.75 mg/L Poecilia reticulata 96 h		EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h
BENZYL ALCOHOL	EC50 = 35 mg/L 3 h	LC50= 10 mg/L Lepomis macrochirus 96 h LC50= 460 mg/L Pimephales promelas 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
N-BUTANOL (SKIN)	EC50 > 500 mg/L 96 h EC50 > 500 mg/L 72 h	LC50 100000-500000 μg/L Lepomis macrochirus 96 h LC50 1730-1910 mg/L Pimephales promelas 96 h LC50= 1740 mg/L Pimephales promelas 96 h LC50= 1910000 μg/L Pimephales promelas 96 h		EC50 1897 - 2072 mg/L 48 h EC50 = 1983 mg/L 48 h

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
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 - 7.6	LC50= 4.2 mg/L	_	
	mg/L 96 h	Oncorhynchus mykiss 96 h		
		LC50 7.55-11 mg/L		
		Pimephales promelas 96 h		
		LC50= 32 mg/L Lepomis		
		macrochirus 96 h LC50 9.1-		
		15.6 mg/L Pimephales		
		promelas 96 h LC50= 9.6 mg/L		
		Poecilia reticulata 96 h		
ISOPHORONE DIAMINE	EC50 = 37 mg/L 72 h	LC50= 110 mg/L Leuciscus		EC50 14.6 - 21.5 mg/L 48 h
		idus 96 h		EC50 = 42  mg/L  24  h
AMORPHOUS SILICA	EC50 = 440 mg/L 72 h	LC50= 5000 mg/L Brachydanio		EC50 = 7600  mg/L  48  h
	_	rerio 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/NDSL** Does not Comply

EINECS/ELINCS Complies
CHINA Complies

ENCS Does not Comply
KECL Complies
PICCS Complies
AICS Complies

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

Component XYLENE

ETHYL BENZENE

# **United States of America Federal Regulations**

### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
XYLENE	1330-20-7	10 - 30	1.0 % de minimis concentration

#### N140-11WHA - POTA-POX PLUS WHITE

N-BUTANOL (SKIN)	71-36-3	1 - 5	1.0 % de minimis
			concentration
ETHYL BENZENE	100-41-4	1 - 5	0.1 % de minimis
			concentration
ALUMINUM OXIDES	1344-28-1	1 - 5	1.0 % de minimis
			concentration (fibrous forms)

# 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

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

## **CERCLA**

## **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
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
TITANIUM DIOXIDE (TOTAL DUST)	Х	X	X		Х
CRYSTALLINE SILICA (QUARTZ)	Х	Х	X		Х
XYLENE	Χ	Χ	X	Χ	Χ
BENZYL ALCOHOL	Χ		X		
N-BUTANOL (SKIN)	Χ	X	X		X
ETHYL BENZENE	Χ	X	X	X	X
ISOPHORONE DIAMINE		X			
AMORPHOUS SILICA	Χ		X		
ALUMINUM OXIDES	Х	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**

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 05-May-2011

Revision Note No information available

HMIS (Hazardous Material Health 2\* Flammability 3 Reactivity 1

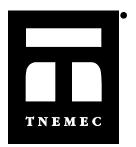
Information System)

#### **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 05-May-2011 Revision Date 05-May-2011 Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES N140 PART B

Product code N140-0140B
Trade name POTA-POX PLUS
Product Class EPOXY PAINT

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

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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. 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).

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

tract. Respiratory disorders.

**Interactive effects**Use of alcoholic beverages may enhance toxic effects.

Potential environmental effects See Section 12 for additional Ecological Information

Target Organ Effects

Blood, Central nervous system, Central Vascular System (CVS), Eyes, Kidney, Liver, Lungs, Respiratory system, Skin, Gastrointestinal tract

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Components** 

Component	CAS-No	Weight %
TALC (RESPIRABLE DUST)	14807-96-6	30 - 60
EPOXY RESIN (LER)	25085-99-8	10 - 30
EPOXY RESIN (LER)	67924-34-9	10 - 30
XYLENE	1330-20-7	5 - 10
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	5 - 10
METHYL ISOBUTYL KETONE	108-10-1	1 - 5
AROMATIC HYDROCARBON MIXTURE	64742-95-6	1 - 5
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 5
1,3,5-TRIMETHYLBENZENE	108-67-8	0.1 - 1
ETHYL BENZENE	100-41-4	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.

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)	: 2 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	: 2 mg/m³ TWA (<1% Crystalline silica, containing no Asbestos, respirable dust)	TWA: 3 mg/m³ TWAEV (respirable dust)	TWA: 2 mg/m³ TWA (containing no Asbestos and <1% Crystalline silica, respirable)	: 2 mg/m³ TWA (respirable fraction)
XYLENE	: 100 ppm TWA : 150 ppm STEL	: 100 ppm TWA; 435 mg/m³ TWA : 150 ppm STEL; 655 mg/m³ STEL	TWA: 100 ppm TWAEV; 434 mg/m³ TWAEV STEL: 150 ppm STEV; 651 mg/m³ STEV	TWA: 100 ppm TWA STEL: 150 ppm STEL	: 100 ppm TWA; 435 mg/m³ TWA : 150 ppm STEL; 655 mg/m³ STEL
CRYSTALLINE SILICA (QUARTZ)	: 0.025 mg/m³ TWA (respirable fraction)	: 0.1 mg/m³ TWA (respirable dust)	TWA: 0.1 mg/m <sup>3</sup> TWAEV (respirable dust)	TWA: 0.10 mg/m³ TWA (designated substance regulation, respirable)	: 0.1 mg/m³ TWA (respirable fraction)
METHYL ISOBUTYL KETONE	: 20 ppm TWA : 75 ppm STEL	: 50 ppm TWA; 205 mg/m³ TWA : 75 ppm STEL; 300 mg/m³ STEL : 100 ppm TWA; 410 mg/m³ TWA	TWA: 50 ppm TWAEV; 205 mg/m³ TWAEV STEL: 75 ppm STEV; 307 mg/m³ STEV	TWA: 50 ppm TWA STEL: 75 ppm STEL	: 50 ppm TWA; 205 mg/m³ TWA : 75 ppm STEL; 307 mg/m³ STEL
1,2,4-TRIMETHYLBENZENE	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 125 mg/m³ TWA: 25 ppm STEL: 170 mg/m³ STEL: 35 ppm
1,3,5-TRIMETHYLBENZENE	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 123 mg/m <sup>3</sup>	TWA: 125 mg/m³ TWA: 25 ppm STEL: 170 mg/m³ STEL: 35 ppm
ETHYL BENZENE	: 100 ppm TWA : 125 ppm STEL	: 100 ppm TWA; 435 mg/m³ TWA : 125 ppm STEL; 545 mg/m³ STEL	TWA: 100 ppm TWAEV; 434 mg/m³ TWAEV STEL: 125 ppm STEV; 543 mg/m³ STEV	TWA: 100 ppm TWA STEL: 125 ppm STEL	: 100 ppm TWA; 435 mg/m³ TWA : 125 ppm STEL; 545 mg/m³ STEL

**Engineering measures** Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment** 

Skin protection Lightweight protective clothing, Apron, Impervious gloves Eve/face protection If splashes are likely to occur, wear Googles.

Use only with adequate ventilation. Do not breathe dust, vapors or spray mist. Ensure Respiratory protection

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 27°C / 80.0°F

Boiling range 114 - 142°C / 237.0 - 288.0°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** 1.39796 g/cm3

**Density** 11.63312 lbs/gal Volatile organic compounds (VOC) content 2.120 lbs/gal Volatile by weight 18.2190 %

Volatile by volume 29.8580 %

## 10. STABILITY AND REACTIVITY

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

Amines.

Incompatible products Strong oxidizing agents. Bases. Possibility of hazardous None under normal processing

Acids. Amines. Alkalines. reactions

# 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

#### **Component Information**

		·	
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
XYLENE	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L (
			Rat ) 4 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		·
METHYL ISOBUTYL KETONE	2080 mg/kg (Rat)	16000 mg/kg ( Rabbit )	8.2 mg/L (Rat) 4 h
AROMATIC HYDROCARBON	8400 mg/kg (Rat)	2000 mg/kg (Rabbit)	3400 ppm (Rat) 4 h 5.2 mg/L (Rat)
MIXTURE			4 h
1,2,4-TRIMETHYLBENZENE	3400 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m <sup>3</sup> (Rat) 4 h
1,3,5-TRIMETHYLBENZENE	5000 mg/kg (Rat)		24 g/m <sup>3</sup> (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 tak	ole below indicates wh	ether each agency ha	as listed any ingredien	t as a carcinogen
Component	ACGIH	IARC	NTP	OSHA	Mexico
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	Х	
METHYL ISOBUTYL KETONE	А3				
ETHYL BENZENE	A3	Group 2B		X	

MutegenicityNo information availableReproductive effectsNo information availableDevelopmental effectsNo information availableTeratogenicityNo information available

Target Organ Effects Blood, Central nervous system, Central Vascular System (CVS), Eyes, Kidney, Liver, Lungs,

Respiratory system, Skin, Gastrointestinal tract.

**Endocrine Disruptor Information** No information available

Component	EU - Endocrine Disrupters	EU - Endocrine Disruptors -	Japan - Endocrine Disruptor
	Candidate List	Evaluated Substances	Information
EPOXY RESIN (LER)	Group III Chemical		· · ·

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

.

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
TALC (RESPIRABLE DUST)		LC50> 100 g/L Brachydanio		
		rerio 96 h		
XYLENE		LC50= 13.4 mg/L Pimephales	EC50 = 0.0084 mg/L 24 h	EC50 = 3.82 mg/L 48 h LC50
		promelas 96 h LC50 2.661-		= 0.6 mg/L 48 h
		4.093 mg/L Oncorhynchus		G
		mykiss 96 h LC50 13.5-17.3		
		mg/L Oncorhynchus mykiss 96		
		h LC50 13.1-16.5 mg/L		
		Lepomis macrochirus 96 h		
		LC50= 19 mg/L Lepomis		
		macrochirus 96 h LC50 7.711-		
		9.591 mg/L Lepomis		
		macrochirus 96 h LC50 23.53-		
		29.97 mg/L Pimephales		
		promelas 96 h LC50= 780		
		mg/L Cyprinus carpio 96 h		
		LC50> 780 mg/L Cyprinus		
		carpio 96 h LC50 30.26-40.75		
		mg/L Poecilia reticulata 96 h		
METHYL ISOBUTYL	EC50 = 400  mg/L  96  h	LC50 496-514 mg/L	EC50 = 79.6 mg/L 5 min	EC50 = 170 mg/L 48 h
KETONE		Pimephales promelas 96 h	-	-
AROMATIC HYDROCARBON		LC50= 9.22 mg/L		EC50 = 6.14 mg/L 48 h
MIXTURE		Oncorhynchus mykiss 96 h		
1,2,4-TRIMETHYLBENZENE		LC50 7.19-8.28 mg/L		EC50 = 6.14 mg/L 48 h
		Pimephales promelas 96 h		-
		LC50= 7.72 mg/L Pimephales		
		promelas 96 h		
1,3,5-TRIMETHYLBENZENE		LC50= 3.48 mg/L Pimephales		EC50 = 50 mg/L 24 h
		promelas 96 h LC50= 7.72		_
		mg/L Pimephales promelas 96		
		h		

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
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 - 7.6	LC50= 4.2 mg/L	_	
	mg/L 96 h	Oncorhynchus mykiss 96 h		
		LC50 7.55-11 mg/L		
		Pimephales promelas 96 h		
		LC50= 32 mg/L Lepomis		
		macrochirus 96 h LC50 9.1-		
		15.6 mg/L Pimephales		
		promelas 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/NDSL Complies

**EINECS/ELINCS** Does not Comply

**CHINA** Complies

**ENCS** Does not Comply

**KECL** Complies **PICCS** Complies

AICS Does not Comply

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

Component
XYLENE
METHYLISOBUTYLE

METHYL ISOBUTYL KETONE

ETHYL BENZENE

#### **United States of America Federal Regulations**

#### **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
XYLENE	1330-20-7	5 - 10	1.0 % de minimis concentration
METHYL ISOBUTYL KETONE	108-10-1	1 - 5	1.0 % de minimis concentration
1,2,4-TRIMETHYLBENZENE	95-63-6	1 - 5	1.0 % de minimis concentration

#### N140-0140B - POTA-POX PLUS

ETHYL BENZENE	100-41-4	0.1 - 1	0.1 % de minimis
			concentration

## 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

Component	CWA - Reportable	CWA - Toxic Pollutants	<b>CWA - Priority Pollutants</b>	CWA - Hazardous Substances
·	Quantities		-	
XYLENE	100 lb RQ			X
ETHYL BENZENE	1000 lb RQ	X	X	X

#### **CERCLA**

# **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
ETHYL BENZENE	100-41-4	Carcinogen

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TALC (RESPIRABLE DUST)	Χ	Χ	X		X
XYLENE	Χ	X	X	X	X
CRYSTALLINE SILICA	Χ	X	X		X
(QUARTZ)					
METHYL ISOBUTYL	Χ	X	X	X	X
KETONE					
1,2,4-TRIMETHYLBENZENE	Χ	X	X	X	X
1,3,5-TRIMETHYLBENZENE	Χ	X	X	X	X
ETHYL BENZENE	X	X	X	X	l 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**

B2 Flammable liquid D2A Very toxic materials



Component	NPRI
XYLENE	Part 1, Group 1 Substance; Part 5 Substance
METHYL ISOBUTYL KETONE	Part 1, Group 1 Substance, Part 5 Substance
AROMATIC HYDROCARBON MIXTURE	Part 5 Substance

1,2,4-TRIMETHYLBENZENE	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 05-May-2011

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**