

Material Safety Data Sheet

Print Date 24-Jun-2011 Revision Date 24-Jun-2011 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES L69F PART A

Product code L-69-11WHA

Trade name HB EPOXOLINE II 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!

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.

Inhalation Irritating to respiratory system. Respirable crystalline silica (quartz) can cause silicosis, a

fibrosis (scarring) of the lungs.

Ingestion May be harmful if swallowed.

Chronic effects

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

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Central nervous system. 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, Central Vascular System (CVS), Eyes, Lungs, Respiratory system,

Skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Component	CAS-No	Weight %
TALC (RESPIRABLE DUST)	14807-96-6	10 - 30
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	10 - 30
P-CHLOROBENZOTRIFLUORIDE	98-56-6	10 - 30
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	10 - 30
BENZYL ALCOHOL	100-51-6	5 - 10
N-BUTANOL (SKIN)	71-36-3	1 - 5
ISOPHORONE DIAMINE	2855-13-2	1 - 5
AMORPHOUS SILICA	7631-86-9	1 - 5
ALUMINUM OXIDES	1344-28-1	1 - 5
XYLENE	1330-20-7	0.1 - 1
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 - 1
1,3,5-TRIMETHYLBENZENE	108-67-8	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 Combustible material.

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. Chlorine. Fluorine.

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.

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.

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. 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)
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)
TITANIUM DIOXIDE (TOTAL DUST)	: 10 mg/m³ TWA	: 10 mg/m³ TWA (total dust) : 15 mg/m³ TWA (total dust)	TWA: 10 mg/m³ TWAEV (total dust, containing no Asbestos and <1% Crystalline silica)	TWA: 10 mg/m³ TWA (total dust)	: 10 mg/m³ TWA (as Ti) : 20 mg/m³ STEL (as Ti)
P- CHLOROBENZOTRIFLUORI DE	TWA: 2.5 mg/m ³		TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	
CRYSTALLINE SILICA (QUARTZ)	: 0.025 mg/m³ TWA (respirable fraction)	: 0.1 mg/m³ TWA (respirable dust)	TWA: 0.1 mg/m ³ TWAEV (respirable dust)	TWA: 0.10 mg/m³ TWA (designated substance regulation, respirable)	: 0.1 mg/m³ TWA (respirable fraction)
N-BUTANOL (SKIN)	: 20 ppm TWA	Skin: 50 ppm Ceiling; 150 mg/m³ Ceiling: 100 ppm TWA; 300 mg/m³ TWA	Ceiling: 50 ppm Ceiling; 152 mg/m³ Ceiling Skin	TWA: 20 ppm TWA	: 50 ppm Peak; 150 mg/m³ Peak
ALUMINUM OXIDES	TWA: 1 mg/m ³	: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction) : 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)	TWA: 10 mg/m³ TWAEV (total dust, containing no Asbestos and <1% Crystalline silica, as Al)	TWA: 10 mg/m ³	: 10 mg/m³ TWA
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
1,2,4-TRIMETHYLBENZENE	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m ³	TWA: 25 ppm TWA: 123 mg/m ³	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 ³	TWA: 25 ppm TWA: 123 mg/m ³	TWA: 125 mg/m³ TWA: 25 ppm STEL: 170 mg/m³ STEL: 35 ppm

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 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 $41^{\circ}\text{C} / 105.0^{\circ}\text{F}$

Boiling range 116 - 139°C / 241.0 - 282.0°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 Gravity1.75845 g/cm3Density14.63294 lbs/galVolatile organic compounds (VOC) content1.254 lbs/galVolatile by weight24.3440 %

 Volatile by weight
 24.3440 %

 Volatile by volume
 36.8585 %

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 reactions

as Chromerge and Aqua Regia.

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)		
P-CHLOROBENZOTRIFLUORIDE	13 g/kg (Rat)	>2 mg/kg (Rabbit)	33 mg/L (Rat) 4 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		- ' '
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)	>17.7 mg/L (Rat) 4 h 8000 ppm (
			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)		
XYLENE	4300 mg/kg (Rat)	>1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L (
			Rat) 4 h

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	11. TOXICOLOGIC	CAL INFORMATION	
1,2,4-TRIMETHYLBENZENE	3400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	18 g/m³ (Rat) 4 h
1,3,5-TRIMETHYLBENZENE	5000 mg/kg (Rat)		24 g/m ³ (Rat) 4 h

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 DUST)		Group 2B		X	
CRYSTALLINE SILICA (QUARTZ)	A2	Group 1	Known	X	

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.

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)	TOXICITY to algae	LC50> >100 g/L Brachydanio rerio 96 h	Toxicity to microorganisms	TOXICITY TO GAPTITIA
P- CHLOROBENZOTRIFLUORI DE			EC50 = 11.1 mg/L 5 min EC50 = 13.4 mg/L 15 min EC50 = 14.3 mg/L 30 min	EC50 3.68 mg/L 48 h
BENZYL ALCOHOL	EC50 35 mg/L 3 h	LC50 460 mg/L Pimephales promelas 96 h LC50 10 mg/L Lepomis macrochirus 96 h	EC50 = 63.7 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 71.4 mg/L 30 min EC50 = 50 mg/L 5 min	EC50 23 mg/L 48 h
N-BUTANOL (SKIN)	EC50 > >500 mg/L 96 h EC50 > >500 mg/L 72 h	LC50 1730-1910 mg/L Pimephales promelas 96 h LC50 1740 mg/L Pimephales promelas 96 h LC50 100000- 500000 µg/L Lepomis macrochirus 96 h LC50 1910000 µg/L Pimephales promelas 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 EC50 1897 - 2072 mg/L 48 h
ISOPHORONE DIAMINE	EC50 37 mg/L 72 h	LC50 110 mg/L Leuciscus idus 96 h		EC50 42 mg/L 24 h EC50 14.6 - 21.5 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

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
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		
		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		
1,2,4-TRIMETHYLBENZENE		LC50 7.72 mg/L Pimephales		EC50 6.14 mg/L 48 h
		promelas 96 h LC50 7.19-8.28		· ·
		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		Ğ
		Pimephales promelas 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 packagingEmpty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other

modes of Transportation.

Proper shipping name PAINT IN OIL

15. REGULATORY INFORMATION

International Inventories

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

AICS Complies

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

Component XYLENE

United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
N-BUTANOL (SKIN)	71-36-3	1 - 5	1.0 % de minimis concentration
ALUMINUM OXIDES	1344-28-1	1 - 5	1.0 % de minimis concentration (fibrous forms)
XYLENE	1330-20-7	0.1 - 1	1.0 % de minimis concentration
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 - 1	1.0 % 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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
P-CHLOROBENZOTRIFLUORIDE		X		
XYLENE	100 lb RQ			X

CERCLA

United States of America State Regulations

California Prop. 65

This product contains the following Proposition 65 chemicals:

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Component	CAS-No	California Prop. 65
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	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		X
P-		X	X		X
CHLOROBENZOTRIFLUORI DE					
CRYSTALLINE SILICA (QUARTZ)	Х	X	X		X
BENZYL ALCOHOL	Χ		X		
N-BUTANOL (SKIN)	X	X	X		X
ISOPHORONE DIAMINE		X			
AMORPHOUS SILICA	Χ		X		
ALUMINUM OXIDES	Χ	X	X		X
XYLENE	Χ	X	X	Χ	X
1,2,4-TRIMETHYLBENZENE	Χ	X	X	X	Х
1,3,5-TRIMETHYLBENZENE	X	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 D2B Toxic materials E Corrosive material



Component	NPRI
N-BUTANOL (SKIN)	Part 1, Group 1 Substance
ALUMINUM OXIDES	Part 1, Group 1 Substance (fibrous form)
XYLENE	Part 1, Group 1 Substance; Part 5 Substance
1.2.4-TRIMETHYLBENZENE	Part 1. Group 1 Substance: Part 5 Substance

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date 24-Jun-2011

Revision Note No information available

HMIS (Hazardous Material Health 2* Flammability 2 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 19-May-2011 Revision Date 19-May-2011 Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Common name SERIES L69 PART B

Product code L-69-0069B

Trade name HB EPOXOLINE II CONVERTER

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

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER!

FLAMMABLE LIQUID AND VAPOR. 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.

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).

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Central nervous system. 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, Central Vascular System (CVS), Eyes, Lungs, Respiratory system,

Skin

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
P-CHLOROBENZOTRIFLUORIDE	98-56-6	10 - 30
EPOXY RESIN	25036-25-3	10 - 30
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	5 - 10
tert-BUTYL ACETATE	540-88-5	1 - 5
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 - 1
XYLENE	1330-20-7	0.1 - 1
1,3,5-TRIMETHYLBENZENE	108-67-8	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. Chlorine. Fluorine.

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)
P- CHLOROBENZOTRIFLUORI DE	TWA: 2.5 mg/m ³		TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³	
CRYSTALLINE SILICA (QUARTZ)	: 0.025 mg/m³ TWA (respirable fraction)	: 0.1 mg/m³ TWA (respirable dust)	TWA: 0.1 mg/m ³ TWAEV (respirable dust)	TWA: 0.10 mg/m³ TWA (designated substance regulation, respirable)	: 0.1 mg/m³ TWA (respirable fraction)
tert-BUTYL ACETATE	: 200 ppm TWA	: 200 ppm TWA; 950 mg/m³ TWA	TWA: 200 ppm TWAEV; 950 mg/m ³ TWAEV	TWA: 200 ppm TWA	: 200 ppm TWA; 950 mg/m³ TWA : 250 ppm STEL; 1190 mg/m³ STEL
1,2,4-TRIMETHYLBENZENE	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m ³	TWA: 25 ppm TWA: 123 mg/m ³	TWA: 125 mg/m³ TWA: 25 ppm STEL: 170 mg/m³ STEL: 35 ppm
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
1,3,5-TRIMETHYLBENZENE	TWA: 25 ppm		TWA: 25 ppm TWA: 123 mg/m ³	TWA: 25 ppm TWA: 123 mg/m ³	TWA: 125 mg/m³ TWA: 25 ppm STEL: 170 mg/m³ STEL: 35 ppm

Engineering measures Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Skin protection
Eye/face protection
Respiratory protection

Lightweight protective clothing, Apron, Impervious gloves

If splashes are likely to occur, wear Goggles.

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 35°C / 95.0°F

Boiling range 98 - 139°C / 208.0 - 282.0°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 1.47309 g/cm3

Specific Gravity1.47309 g/cm3Density12.25828 lbs/galVolatile organic compounds (VOC) content.289 lbs/galVolatile by weight25.9040 %Volatile by volume31.6473 %

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. reactions

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
P-CHLOROBENZOTRIFLUORIDE	13 g/kg (Rat)	2 mg/kg (Rabbit)	33 mg/L (Rat) 4 h
CRYSTALLINE SILICA (QUARTZ)	500 mg/kg (Rat)		
tert-BUTYL ACETATE	4100 mg/kg (Rat)	2 g/kg (Rabbit)	2230 mg/m ³ (Rat) 4 h
1,2,4-TRIMETHYLBENZENE	3400 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m ³ (Rat) 4 h
XYLENE	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h 47635 mg/L (
	,		Rat) 4 h
1.3.5-TRIMETHYLBENZENE	5000 mg/kg (Rat)		24 g/m ³ (Rat) 4 h

IrritationNo information availableCorrosivityNo information availableSensitizationNo information available

Chronic toxicity

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

Component	ACGIH	IARC	NTP	OSHA	Mexico
CRYSTALLINE SILICA	A2	Group 1	Known	X	
(QUARTZ)		•			

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.

 Endocrine Disruptor Information
 No information available

 Component
 EU - Endocrine Disrupters Candidate List
 EU - Endocrine Disruptors -Evaluated Substances
 Japan - Endocrine Disruptor Information

 EPOXY RESIN (LER)
 Group III Chemical
 FPOXY RESIN
 Group III Chemical

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		
P- CHLOROBENZOTRIFLUORI DE			EC50 = 11.1 mg/L 5 min EC50 = 13.4 mg/L 15 min EC50 = 14.3 mg/L 30 min	EC50 = 3.68 mg/L 48 h
tert-BUTYL ACETATE		LC50 296-362 mg/L Pimephales promelas 96 h	EC50 = 6.38 mg/L 5 min EC50 = 8.04 mg/L 15 min EC50 = 11.1 mg/L 30 min	
1,2,4-TRIMETHYLBENZENE		LC50 7.19-8.28 mg/L Pimephales promelas 96 h LC50= 7.72 mg/L Pimephales promelas 96 h		EC50 = 6.14 mg/L 48 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 30.26-40.75 mg/L Poecilia reticulata 96 h		EC50 = 3.82 mg/L 48 h LC50 = 0.6 mg/L 48 h
1,3,5-TRIMETHYLBENZENE		LC50= 3.48 mg/L Pimephales promelas 96 h LC50= 7.72 mg/L Pimephales promelas 96 h		EC50 = 50 mg/L 24 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

KECLCompliesPICCSCompliesAICSComplies

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

Component

XYLENE

United States of America Federal Regulations

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
1,2,4-TRIMETHYLBENZENE	95-63-6	0.1 - 1	1.0 % de minimis concentration
XYLENE	1330-20-7	0.1 - 1	1.0 % de minimis concentration

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
P-CHLOROBENZOTRIFLUORIDE		X		
tert-BUTYL ACETATE				Х
XYI FNF	100 lb RQ			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

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
TALC (RESPIRABLE DUST)	X	X	X		X

P-		X	X		X
CHLOROBENZOTRIFLUORI					
DE					
CRYSTALLINE SILICA	X	X	X		X
(QUARTZ)					
tert-BUTYL ACETATE	X	X	X		X
1,2,4-TRIMETHYLBENZENE	Χ	Χ	X	Χ	Χ
XYLENE	Χ	X	X	X	X
1.3.5-TRIMETHYLBENZENE	X	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

B2 Flammable liquid D2B Toxic materials



Component	NPRI
1,2,4-TRIMETHYLBENZENE	Part 1, Group 1 Substance; Part 5 Substance
XYLENE	Part 1, Group 1 Substance; Part 5 Substance

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date 19-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.

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End of MSDS