

# PRODUCT SAFETY INFORMATION SHEET

This is a condensed document providing safety and health information pertinent to the product. For a complete regulatory MSDS please contact your Tnemec Representative at www.tnemec.com or 1-800-TNEMEC1.

Preparation Date: 30-Mar-2009 Revision Date: 30-Mar-2009 Revision Number: 0

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## DANGER!

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

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.

**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.)

# **Target Organ Effects**

Central nervous system, Central Vascular System, Eyes, Lungs, Respiratory system, Skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Hazardous Components**

Component	CAS-No	Weight %
TALC (RESPIRABLE DUST)	14807-96-6	20.36946
TITANIUM DIOXIDE (TOTAL DUST)	13463-67-7	19.05055
BENZENE, 1-CHLORO-4-(TRIFLUOROMETHYL)-	98-56-6	17.93839
CRYSTALLINE SILICA (QUARTZ)	14808-60-7	13.09598
MODIFIED CYCLOALIPHATIC POLYAMINE	-	0 - 10%
BENZYL ALCOHOL	100-51-6	5.145453
N-BUTANOL (SKIN)	71-36-3	3.824727
ISOPHORONE DIAMINE	2855-13-2	2.401211
AMORPHOUS SILICA	7631-86-9	2.35192
ALUMINUM OXIDES	1344-28-1	2.116728
1,2,4-TRIMETHYLBENZENE	95-63-6	0.6245534
XYLENE	1330-20-7	0.319463
1,3,5-TRIMETHYLBENZENE	108-67-8	0.1561383

## 4. FIRST AID MEASURES

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water. Consult a physician if necessary.

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

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.

#### 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. 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.

	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.

# 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)	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
TITANIUM DIOXIDE (TOTAL DUST)	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup>
BENZENE, 1-CHLORO-4- (TRIFLUOROMETHYL)-	TWA: 2.5 mg/m <sup>3</sup>		TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	
CRYSTALLINE SILICA (QUARTZ)	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
N-BUTANOL (SKIN)	TWA: 20 ppm	Skin Ceiling: 50 ppm Ceiling: 150 mg/m <sup>3</sup> TWA: 100 ppm TWA: 300 mg/m <sup>3</sup>	Ceiling: 152 mg/m <sup>3</sup> Ceiling: 50 ppm Skin	TWA: 20 ppm	Peak: 150 mg/m³ Peak: 50 ppm
ALUMINUM OXIDES	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
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/m <sup>3</sup> TWA: 25 ppm STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm

	8. EXPOSURE CONTROLS / PERSONAL PROTECTION					
	XYLENE	TWA: 100 ppm STEL: 150 ppm	100 ppm STEL: 150		435 mg/m <sup>3</sup> STEL: 150	
1,3,5-TRIM	METHYLBENZENE	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

**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 **Boiling Point/Range Lower Exposure Limits Vapour Pressure Specific Gravity** VOC Content (lbs/gal)

41°C / 105.0°F 116 - 118°C / 241.0 - 245.0°F No information available No information available

1.76259 1.227 36.8250

Method **Upper Exposure Limits Evaporation Rate** Vapour Density

No information available No information available 14.66742

Density % Volatile by Weight 24.3350

# 10. STABILITY AND REACTIVITY

**Chemical stability** 

% Volatile by Volume

Stable.

**Conditions to** 

Heat, flames and sparks. Epoxy constituents.

Avoid

**Incompatible Products** 

Strong oxidizing agents. Bases. Acids. Cleaning solutions such as Chromerge and Aqua Regia.

**Possibility of Hazardous** 

Reactions

None under normal processing

Pensky Martens - Closed Cup

No information available

#### 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

## 16. OTHER INFORMATION

# **SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values
N-BUTANOL (SKIN)	71-36-3	3.824727	1.0
1,2,4-TRIMETHYLBENZENE	95-63-6	0.6245534	1.0
XYLENE	1330-20-7	0.319463	1.0

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

This product contains the following HAPs:

Component XYLENE

**HMIS** Health 2 Flammability 2 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.