



# Material Safety Data Sheet

Print Date 30-Mar-2011

Revision Date 30-Mar-2011

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Common name</b>	THINNER NO. 51
<b>Product code</b>	F041-0051
<b>Trade name</b>	THINNER ELECTROSTATIC
<b>Product Class</b>	PAINT THINNER
<b>Manufacturer</b>	Tnemec Company, Inc. 6800 Corporate Drive, Kansas City, MO 64120-1372
<b>Emergency telephone</b>	800-535-5053 (INFOTRAC) - TNEMEC REGULATORY DEPT: 816-474-3400

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### DANGER!

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE FLASH FIRE.  
HARMFUL IF INHALED.  
HARMFUL OR FATAL IF SWALLOWED.  
MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA.  
MAY CAUSE EYE, SKIN, NOSE, THROAT AND RESPIRATORY TRACT IRRITATION.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

### Potential health effects

**Principle Routes of Exposure** Eye contact, Inhalation, Skin contact.

#### Acute effects

<b>Eyes</b>	Moderately irritating to the eyes.
<b>Skin</b>	Irritating to skin.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	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** Allergies. Skin disorders. Central nervous system. Gastrointestinal tract. Liver disorders. 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, Gastrointestinal tract, Liver, Respiratory system, Skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Components**

Component	CAS-No	Weight %
METHYL ETHYL KETONE	78-93-3	60 - 100
ISOBUTYL ALCOHOL	78-83-1	1 - 5

### 4. FIRST AID MEASURES

<b>Eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water.
<b>Ingestion:</b>	If swallowed, do not induce vomiting. Get medical attention immediately.
<b>Inhalation:</b>	Move to fresh air. Oxygen or artificial respiration if needed.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable properties</b>	Extremely flammable.
<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Contact with water may cause violent frothing. Use: Carbon dioxide (CO <sub>2</sub> ) - Foam - Dry chemical

**Hazardous decomposition products** Oxides of carbon, hydrocarbons.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

**Protective equipment and precautions for firefighters**

Use water spray to cool unopened containers. In the event of fire, wear self-contained breathing apparatus. Keep away from heat/sparks/open flames/hot surfaces. May cause heat and pressure build-up in closed containers. Solvent vapors are heavier than air and may spread along floors. Flash back possible over considerable distance.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	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.
<b>Other information</b>	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**

Vapors may ignite explosively. 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)
METHYL ETHYL KETONE	: 200 ppm TWA : 300 ppm STEL	: 200 ppm TWA; 590 mg/m <sup>3</sup> TWA : 300 ppm STEL; 885 mg/m <sup>3</sup> STEL	TWA: 50 ppm TWAEV; 150 mg/m <sup>3</sup> TWAEV STEL: 100 ppm STEV; 300 mg/m <sup>3</sup> STEV	TWA: 200 ppm TWA STEL: 300 ppm STEL	: 200 ppm TWA; 590 mg/m <sup>3</sup> TWA : 300 ppm STEL; 885 mg/m <sup>3</sup> STEL
ISOBUTYL ALCOHOL	: 50 ppm TWA	: 50 ppm TWA; 150 mg/m <sup>3</sup> TWA : 100 ppm TWA; 300 mg/m <sup>3</sup> TWA	TWA: 50 ppm TWAEV; 152 mg/m <sup>3</sup> TWAEV	TWA: 50 ppm TWA	: 50 ppm TWA; 150 mg/m <sup>3</sup> TWA : 75 ppm STEL; 225 mg/m <sup>3</sup> STEL

**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	-7°C / 20.0°F
Boiling range	78 - 109°C / 172.0 - 228.0°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	.83678 g/cm <sup>3</sup>
Density	6.96328 lbs/gal
Volatile organic compounds (VOC) content	5.956 lbs/gal
Volatile by weight	85.5420 %
Volatile by volume	88.7765 %

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable.	<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Incompatible products</b>	Strong oxidizing agents.	<b>Possibility of hazardous reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
METHYL ETHYL KETONE	2737 mg/kg ( Rat )	6480 mg/kg ( Rabbit )	
ISOBUTYL ALCOHOL	2460 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	6.5 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

Mutagenicity	No information available
Reproductive effects	No information available
Developmental effects	No information available
Teratogenicity	No information available
Target Organ Effects	Blood, Central nervous system, Central Vascular System (CVS), Eyes, Gastrointestinal tract, Liver, Respiratory system, Skin.
Endocrine Disruptor Information	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
METHYL ETHYL KETONE		LC50 3130-3320 mg/L Pimephales promelas 96 h	EC50 = 3426 mg/L 5 min EC50 = 3403 mg/L 30 min	EC50 4025 - 6440 mg/L 48 h EC50 = 5091 mg/L 48 h EC50 > 520 mg/L 48 h
ISOBUTYL ALCOHOL	EC50 = 230 mg/L 48 h	LC50 1120-1520 mg/L Oncorhynchus mykiss 96 h LC50 1370-1670 mg/L Pimephales promelas 96 h LC50 1480-1730 mg/L Lepomis macrochirus 96 h LC50= 375 mg/L Pimephales promelas 96 h	EC50 = 1224.6 mg/L 15 min	EC50 1070 - 1933 mg/L 48 h EC50 = 1300 mg/L 48 h

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	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.
<b>Contaminated packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal

## 14. TRANSPORT INFORMATION

<b>DOT</b>	Ground Transportation Only. Call TNEMEC Traffic Department - 816-474-3400 for other modes of Transportation.
------------	--

**Proper shipping name** UN1993,FLAMMABLE LIQUID,N.O.S.(METHYL ETHYL KETONE,ISOBUTYL ALCOHOL),3,PGII,ERG 128

## 15. REGULATORY INFORMATION

### International Inventories

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

### United States of America Federal Regulations

#### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
METHYL ETHYL KETONE	78-93-3	60 - 100	1.0

#### 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

### CERCLA

### United States of America State Regulations

#### **California Prop. 65**

This product contains the following Proposition 65 chemicals:

#### **State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
METHYL ETHYL KETONE	X	X	X	X	X
ISOBUTYL ALCOHOL	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  
D2A Very toxic materials



Component	NPRI
METHYL ETHYL KETONE	Part 1, Group 1 Substance; Part 5 Substance
ISOBUTYL ALCOHOL	Part 1, Group 1 Substance

**Legend**

NPRI - National Pollutant Release Inventory

**16. OTHER INFORMATION**

Revision Date 30-Mar-2011

Revision Note No information available

HMIS (Hazardous Material Information System)      Health 2      Flammability 3      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 or 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**