



# Material Safety Data Sheet

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Common name** THINNER NO. 60  
**Product code** F041-0060  
**Trade name** THINNER CLEAR  
**Product Class** PAINT THINNER

**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.  
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. Do not induce vomiting: may contain petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary edema and pneumonitis.

#### 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. 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, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
METHYL N-AMYL KETONE	110-43-0	30 - 60
N-BUTANOL	71-36-3	10 - 30
AROMATIC HYDROCARBON MIXTURE	64742-95-6	10 - 30
1,2,4-TRIMETHYLBENZENE	95-63-6	10 - 30
1,3,5-TRIMETHYLBENZENE	108-67-8	1 - 5
DIETHYLBENZENE	25340-17-4	1 - 5
XYLENE	1330-20-7	0.1 - 1

### 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>	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
<b>Hazardous decomposition products</b>	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

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 N-AMYL KETONE	: 50 ppm TWA	: 100 ppm TWA; 465 mg/m <sup>3</sup> TWA	TWA: 50 ppm TWAEV; 233 mg/m <sup>3</sup> TWAEV	TWA: 25 ppm TWA; 115 mg/m <sup>3</sup> TWA	: 50 ppm TWA; 235 mg/m <sup>3</sup> TWA : 100 ppm STEL; 465 mg/m <sup>3</sup> STEL
N-BUTANOL	: 20 ppm TWA	Skin : 50 ppm Ceiling; 150 mg/m <sup>3</sup> Ceiling : 100 ppm TWA; 300 mg/m <sup>3</sup> TWA	Ceiling: 50 ppm Ceiling; 152 mg/m <sup>3</sup> Ceiling Skin	TWA: 20 ppm TWA	: 50 ppm Peak; 150 mg/m <sup>3</sup> Peak
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
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/m <sup>3</sup> TWA: 25 ppm STEL: 170 mg/m <sup>3</sup> STEL: 35 ppm
XYLENE	: 100 ppm TWA : 150 ppm STEL	: 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 150 ppm STEL; 655 mg/m <sup>3</sup> STEL	TWA: 100 ppm TWAEV; 434 mg/m <sup>3</sup> TWAEV STEL: 150 ppm STEV; 651 mg/m <sup>3</sup> STEV	TWA: 100 ppm TWA STEL: 150 ppm STEL	: 100 ppm TWA; 435 mg/m <sup>3</sup> TWA : 150 ppm STEL; 655 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

37°C / 98.0°F

#### Boiling range

116 - 154°C / 241.0 - 309.0°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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity	.83761 g/cm <sup>3</sup>
Density	6.97021 lbs/gal
Volatile organic compounds (VOC) content	6.970 lbs/gal
Volatile by weight	100.0000 %
Volatile by volume	100.0000 %

## 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. Acids. Alkalines.	<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 N-AMYL KETONE	1670 mg/kg ( Rat )	12600 µL/kg ( Rabbit )	
N-BUTANOL	790 mg/kg ( Rat )	3400 mg/kg ( Rabbit )	8000 ppm ( Rat ) 4 h 17.7 mg/L ( Rat ) 4 h
AROMATIC HYDROCARBON MIXTURE	8400 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	3400 ppm ( Rat ) 4 h 5.2 mg/L ( Rat ) 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
XYLENE	4300 mg/kg ( Rat )	1700 mg/kg ( Rabbit )	5000 ppm ( Rat ) 4 h 47635 mg/L ( Rat ) 4 h

<b>Irritation</b>	No information available
<b>Corrosivity</b>	No information available
<b>Sensitization</b>	No information available

### Chronic toxicity

<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen
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<b>Mutagenicity</b>	No information available
<b>Reproductive effects</b>	No information available
<b>Developmental effects</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Target Organ Effects</b>	Blood, Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin.
<b>Endocrine Disruptor Information</b>	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
METHYL N-AMYL KETONE		LC50 126-137 mg/L Pimephales promelas 96 h		
N-BUTANOL	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 = 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 1897 - 2072 mg/L 48 h EC50 = 1983 mg/L 48 h
AROMATIC HYDROCARBON MIXTURE		LC50= 9.22 mg/L Oncorhynchus mykiss 96 h		EC50 = 6.14 mg/L 48 h
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
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
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 = 0.0084 mg/L 24 h	EC50 = 3.82 mg/L 48 h LC50 = 0.6 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 RELATED MATERIAL, 3, PGIII, ERG 128

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA  
DSL/NDL  
EINECS/ELINCS

Complies  
Complies  
Complies

CHINA	Complies
ENCS	Complies
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

#### United States of America Federal Regulations

##### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values
N-BUTANOL	71-36-3	10 - 30	1.0 % de minimis concentration
1,2,4-TRIMETHYLBENZENE	95-63-6	10 - 30	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	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			X

#### 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 N-AMYL KETONE	X	X	X		X
N-BUTANOL	X	X	X		X
1,2,4-TRIMETHYLBENZENE	X	X	X	X	X
1,3,5-TRIMETHYLBENZENE	X	X	X	X	X
DIETHYLBENZENE		X			
XYLENE	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

D2A Very toxic materials



Component	NPRI
N-BUTANOL	Part 1, Group 1 Substance
AROMATIC HYDROCARBON MIXTURE	Part 5 Substance
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 11-Apr-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**