



# Material Safety Data Sheet

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Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Common name</b>	SKIP-SAF
<b>Product code</b>	F044-0500
<b>Trade name</b>	SKIP-SAF
<b>Product Class</b>	PIGMENT DISPERSION
<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!

FLAMMABLE 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 BE HARMFUL IF ABSORBED THROUGH SKIN.

#### Potential health effects

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

#### Acute effects

<b>Eyes</b>	Causes burns.
<b>Skin</b>	Causes burns.
<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** Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin, Teeth

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Component	CAS-No	Weight %
METHYL N-AMYL KETONE	110-43-0	60 - 100
ISOPROPANOL	67-63-0	30 - 60
ACETIC ACID	64-19-7	1 - 5
N,N-DIMETHYLANILINE	121-69-7	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. Oxides of nitrogen. Oxides of sulphur.

#### 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
ISOPROPANOL	: 200 ppm TWA : 400 ppm STEL	: 400 ppm TWA; 980 mg/m <sup>3</sup> TWA : 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL	TWA: 400 ppm TWAEV; 985 mg/m <sup>3</sup> TWAEV STEL: 500 ppm STEV; 1230 mg/m <sup>3</sup> STEV	TWA: 200 ppm TWA STEL: 400 ppm STEL	: 400 ppm TWA; 980 mg/m <sup>3</sup> TWA : 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL
ACETIC ACID	: 10 ppm TWA : 15 ppm STEL	: 10 ppm TWA; 25 mg/m <sup>3</sup> TWA	TWA: 10 ppm TWAEV; 25 mg/m <sup>3</sup> TWAEV STEL: 15 ppm STEV; 37 mg/m <sup>3</sup> STEV	TWA: 10 ppm TWA STEL: 15 ppm STEL	: 10 ppm TWA; 25 mg/m <sup>3</sup> TWA : 15 ppm STEL; 37 mg/m <sup>3</sup> STEL
N,N-DIMETHYLANILINE	: 5 ppm TWA Skin : 10 ppm STEL	: 5 ppm TWA; 25 mg/m <sup>3</sup> TWA : 10 ppm STEL; 50 mg/m <sup>3</sup> STEL Skin	TWA: 5 ppm TWAEV; 25 mg/m <sup>3</sup> TWAEV STEL: 10 ppm STEV; 50 mg/m <sup>3</sup> STEV Skin	TWA: 5 ppm TWA STEL: 10 ppm STEL Skin	: 5 ppm TWA; 25 mg/m <sup>3</sup> TWA : 2 ppm TWA; 10 mg/m <sup>3</sup> TWA : 10 ppm STEL; 50 mg/m <sup>3</sup> STEL : 5 ppm STEL; 20 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**

19°C / 66.0°F

**Boiling range**

48 - 154°C / 118.0 - 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	.82437 g/cm <sup>3</sup>
Density	6.86003 lbs/gal
Volatile organic compounds (VOC) content	6.572 lbs/gal
Volatile by weight	95.8150 %
Volatile by volume	97.0450 %

## 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. Bases. Acids.	<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 )	
ISOPROPANOL	4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h
ACETIC ACID	3310 mg/kg ( Rat )	1060 mg/kg ( Rabbit )	11.4 mg/L ( Rat ) 4 h
N,N-DIMETHYLANILINE	700 mg/kg ( Rat )	1770 mg/kg ( Rabbit )	5.1 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

#### Carcinogenicity

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

Component	ACGIH	IARC	NTP	OSHA	Mexico
ISOPROPANOL		Group 1			

<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>	Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin, Teeth.
<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		

Component	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia
ISOPROPANOL	EC50 > 1000 mg/L 96 h EC50 > 1000 mg/L 72 h	LC50= 11130 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h LC50> 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h
ACETIC ACID		LC50= 75 mg/L Lepomis macrochirus 96 h LC50= 79 mg/L Pimephales promelas 96 h	EC50 = 8.8 mg/L 5 min EC50 = 8.8 mg/L 15 min EC50 = 8.8 mg/L 25 min	EC50 = 47 mg/L 24 h EC50 = 65 mg/L 48 h
N,N-DIMETHYLANILINE	EC50 = 340 mg/L 96 h	LC50 0.183-0.186 mg/L Brachydanio rerio 96 h LC50= 51.1 mg/L Brachydanio rerio 96 h LC50= 52.6 mg/L Pimephales promelas 96 h LC50= 53.7 mg/L Poecilia reticulata 96 h LC50= 65.6 mg/L Pimephales promelas 96 h	EC50 = 13.6 mg/L 5 min EC50 = 14.6 mg/L 30 min EC50 = 110 mg/L 24 h	EC50 = 5 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** Paint Related Material, Not Regulated(DOT 49 CFR 173.4) Small Quantities

### 15. REGULATORY INFORMATION

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not Comply
CHINA	Complies
ENCS	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
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  
N,N-DIMETHYLANILINE

**United States of America Federal Regulations**

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Values

ISOPROPANOL	67-63-0	30 - 60	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
N,N-DIMETHYLANILINE	121-69-7	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
ACETIC ACID	5000 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
ISOPROPANOL	X	X	X		X
ACETIC ACID	X	X	X		X
N,N-DIMETHYLANILINE	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
- E Corrosive material



Component	NPRI
ISOPROPANOL	Part 1, Group 1 Substance; Part 5 Substance
N,N-DIMETHYLANILINE	Part 1, Group 1 Substance

**Legend**

NPRI - National Pollutant Release Inventory

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16. OTHER INFORMATION
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Revision Date 31-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.

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**End of MSDS**