

# **Safety Data Sheet**

Issue Date: 01-Jan-2018 Revision Date: 01-Jan-2024 Version 1

### 1. IDENTIFICATION

**Product Identifier** 

Product Name MICCROSTRIP ® A

Other means of identification

SDS # TD-003-OSHA

UN/ID No UN1263

Recommended use of the chemical and restrictions on use

Recommended Use Plating.

Details of the supplier of the safety data sheet

Supplier Address
Tolher Chemical Divis

Tolber Chemical Division 220 West 5th Street Hope, AR 71801

**Emergency Telephone Number** 

Company Phone Number 870-777-3251

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

### 2. HAZARDS IDENTIFICATION

Appearance Clear liquid Physical State Liquid Odor Ketone

### Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 2

## Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed

Causes skin irritation

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

May be fatal if swallowed and enters airways

Highly flammable liquid and vapor







#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear eye/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

#### **Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do not induce vomiting

Rinse mouth

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

### Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Hazards**

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methyl ethyl ketone	78-93-3	15-25
Toluene	108-88-3	25-35
Acetone	67-64-1	25-35

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### **First Aid Measures**

**General Advice** If exposed or concerned: Get medical advice/attention.

**Eye Contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact** Flush with water. Take off contaminated clothing. Wash contaminated clothing before

reuse. Get medical attention if irritation occurs.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a

physician if you feel unwell.

**Ingestion** Rinse mouth. Do not induce vomiting. Call a physician or poison control center immediately.

#### Most important symptoms and effects

**Symptoms** Skin contact can lead to drying, defatting, itching, stinging and irritation. Prolonged contact

may cause painful stinging or burning of eyes and lids, watering of eye, and irritation. Prolonged breathing of vapors may cause nausea, headache, weakness and/or dizziness.

May cause nausea, vomiting, stomach ache, and diarrhea.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Carbon dioxide (CO2). Dry chemical. Foam.

Unsuitable Extinguishing Media Not determined.

### Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor.

Hazardous Combustion Products Carbon oxides.

Sensitivity to Mechanical Impact Not determined.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required. Remove all sources of ignition.

**Environmental Precautions** See Section 12 for additional Ecological Information.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Absorb spillage with non-combustible, absorbent material.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary

measures against static discharges.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl ethyl ketone 78-93-3	STEL: 300 ppm TWA: 200 ppm	TWA: 200 ppm TWA: 590 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m³ (vacated) STEL: 300 ppm	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm STEL: 885 mg/m <sup>3</sup>
		(vacated) STEL: 885 mg/m <sup>3</sup>	31EL. 663 HIg/III
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m³ STEL: 150 ppm STEL: 560 mg/m³
Acetone 67-64-1	STEL: 750 ppm TWA: 500 ppm	TWA: 1000 ppm TWA: 2400 mg/m³ (vacated) TWA: 750 ppm (vacated) TWA: 1800 mg/m³ (vacated) STEL: 2400 mg/m³ The acetone STEL does not apply to the cellulose acetate fiber industry. It is in effect for all other sectors (vacated) STEL: 1000 ppm	IDLH: 2500 ppm TWA: 250 ppm TWA: 590 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear approved safety goggles.

**Skin and Body Protection** Chemical resistant, impermeable gloves. Long sleeve shirt and long pants. Protective

shoes or boots.

**Respiratory Protection** In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash face, hands and any exposed

skin thoroughly after handling. Wash contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Liquid **Appearance** Clear liquid

Odor Ketone

Color Clear **Odor Threshold** Not determined

**Values** Remarks • Method **Property** Not determined

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Not determined **Melting Point/Freezing Point** 63 °C / 145 °F

**Boiling Point/Boiling Range** -17 °C / 1 °F

Tag Closed Cup Flash Point

6.0 **Evaporation Rate** n/a-liquid Flammability (Solid, Gas) 10% **Upper Flammability Limits** Lower Flammability Limit 2%

**Vapor Pressure** Not determined

**Vapor Density** 2.5 (Air=1)

**Specific Gravity** 0.82

Water Solubility Insoluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined VOC 6.8 lbs/gal

10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions. Not reactive under normal conditions

#### **Chemical Stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to Avoid**

Keep away from heat, sparks and open flame.

#### **Incompatible Materials**

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Thermal decomposition may produce oxides of carbon.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes skin irritation.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2737 mg/kg ( Rat )	= 6480 mg/kg ( Rabbit )	-
Toluene 108-88-3	= 636 mg/kg (Rat)	= 8390 mg/kg (Rabbit) = 12124 mg/kg (Rat)	= 12.5 mg/L (Rat) 4 h > 26700 ppm (Rat) 1 h
Acetone 67-64-1	= 5800 mg/kg ( Rat )	-	-

#### Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

However, the product as a whole has not been tested. Group 3 IARC components are "not

classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Toluene		Group 3		
108-88-3		·		

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure**May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### **Numerical measures of toxicity**

Not determined

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

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### **Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Methyl ethyl ketone		3130 - 3320: 96 h	EC50 = 3403 mg/L 30 min	520: 48 h Daphnia magna
78-93-3		Pimephales promelas mg/L	EC50 = 3426 mg/L 5 min	mg/L EC50 5091: 48 h
		LC50 flow-through		Daphnia magna mg/L EC50
				4025 - 6440: 48 h Daphnia
				magna mg/L EC50 Static
Toluene	433: 96 h	15.22 - 19.05: 96 h	EC50 = 19.7 mg/L 30 min	5.46 - 9.83: 48 h Daphnia
108-88-3	Pseudokirchneriella	Pimephales promelas mg/L		magna mg/L EC50 Static
	subcapitata mg/L EC50 12.5:			11.5: 48 h Daphnia magna
	72 h Pseudokirchneriella	Pimephales promelas mg/L		mg/L EC50
	subcapitata mg/L EC50	LC50 static 5.89 - 7.81: 96 h		
	static	Oncorhynchus mykiss mg/L		
		LC50 flow-through 14.1 -		
		17.16: 96 h Oncorhynchus		
		mykiss mg/L LC50 static 5.8:		
		96 h Oncorhynchus mykiss		
		mg/L LC50 semi-static 11.0 -		
		15.0: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 54: 96 h Oryzias		
		latipes mg/L LC50 static		
		28.2: 96 h Poecilia reticulata		
		mg/L LC50 semi-static 50.87		
		- 70.34: 96 h Poecilia		
		reticulata mg/L LC50 static		
Acetone		4.74 - 6.33: 96 h	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia
67-64-1		Oncorhynchus mykiss mL/L		magna mg/L EC50 Static
		LC50 6210 - 8120: 96 h		12600 - 12700: 48 h Daphnia
		Pimephales promelas mg/L		magna mg/L EC50
		LC50 static 8300: 96 h		
		Lepomis macrochirus mg/L		
		LC50		

### Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

### **Mobility**

Chemical Name	Partition Coefficient
Methyl ethyl ketone	0.29
78-93-3	
Toluene	2.65
108-88-3	
Acetone	-0.24
67-64-1	

### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations. **Disposal of Wastes** 

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and

regulations.

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### **US EPA Waste Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl ethyl ketone	U159	Included in waste streams:	200.0 mg/L regulatory level	U159
78-93-3		F005, F039		
Toluene	U220	Included in waste streams:		U220
108-88-3		F005, F024, F025, F039,		
		K015, K036, K037, K149,		
		K151		
Acetone		Included in waste stream:		U002
67-64-1		F039		

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
	Organic Compounds			
Toluene			Toxic waste	
108-88-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes. These	
			chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methyl ethyl ketone	Toxic
78-93-3	Ignitable
Toluene	Toxic
108-88-3	Ignitable
Acetone	Ignitable
67-64-1	

### 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1263

**Proper Shipping Name** Paint related material

**Hazard Class** 3 **Packing Group** Ш

**IATA** 

UN/ID No UN1263

**Proper Shipping Name** Paint related material

**Hazard Class Packing Group** Ш

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**IMDG** 

UN1263 UN/ID No

**Proper Shipping Name** Paint related material

**Hazard Class Packing Group** 

**Marine Pollutant** This material may meet the definition of a marine pollutant

### 15. REGULATORY INFORMATION

#### **International Inventories**

Not determined

### US Federal Regulations

### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Methyl ethyl ketone	5000 lb		RQ 5000 lb final RQ
78-93-3			RQ 2270 kg final RQ
Toluene	1000 lb 1 lb		RQ 1000 lb final RQ
108-88-3			RQ 454 kg final RQ RQ 1 lb final
			RQ
			RQ 0.454 kg final RQ
Acetone	5000 lb		RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ

### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Toluene - 108-88-3	108-88-3	25-35	1.0

### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3 ( 25-35 )	1000 lb	X	X	X

### **US State Regulations**

<u>California Proposition 65</u>
This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Toluene - 108-88-3	Developmental	
	Female Reproductive	

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl ethyl ketone 78-93-3	Х	X	X
Toluene 108-88-3	Х	X	X
Acetone 67-64-1	Х	Х	X

### **16. OTHER INFORMATION**

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards330Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection

3 0 X

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### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**