

# Safety Data Sheet

Issue Date: 19-Sep-2012

Revision Date: 18-Feb-2014

Version 1

# **1. IDENTIFICATION**

Product Identifier Product Name	MICCROSTOP		
Other means of identification SDS #	TD-002-OSHA		
UN/ID No	UN1263		
Recommended use of the chemical Recommended Use	and restrictions on use Plating.		
Details of the supplier of the safety data sheet			
Supplier Address Tolber Chemical Division 220 West 5th Street Hope, AR 71801			
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	870-777-3251 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)		
	2. HAZARDS IDENTIFICATION		
Appearance Red liquid	Physical State Liquid		
Classification			

Odor Ketone

#### (

olacomodion	
Serious eye damage/eye irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

#### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed Causes mild skin irritation

#### Signal Word Danger

# Hazard Statements

Causes serious eye irritation May cause genetic defects May cause cancer May cause respiratory irritation. May cause drowsiness or dizziness 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 Wear eye/face protection Avoid breathing 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 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing 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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methyl ethyl ketone	78-93-3	70-80
Propylene oxide	75-56-9	0.5-1.5

\*\*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. If skin irritation persists, call a physician.

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.
Ingestion	Do not induce vomiting. Call a physician or poison control center immediately.
Most important symptoms a	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 Not determined.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2).

Sensitivity to Mechanical Impact Not determined. Sensitivity to Static Discharge Take precautionary measures against static discharge.

#### 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. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing vapors or mists. Use only in well-ventilated areas. 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/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m <sup>3</sup>	IDLH: 3000 ppm TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm
		(vacated) STEL: 300 ppm (vacated) STEL: 885 mg/m <sup>3</sup>	STEL: 885 mg/m <sup>3</sup>
Propylene oxide 75-56-9	TWA: 2 ppm	TWA: 100 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 20 ppm (vacated) TWA: 50 mg/m <sup>3</sup>	IDLH: 400 ppm

#### 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 Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State
Appearance
Color

Liquid Red liquid Red

Odor Odor Threshold Ketone Not determined

Property	Values	Remarks • Method
pH	Not determined	
Melting Point/Freezing Point	Not determined	
<b>Boiling Point/Boiling Range</b>	47.8 °C / 118 °F	
Flash Point	-1.1 °C / 30 °F	Tag Closed Cup
Evaporation Rate	5.0	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	10%	
Lower Flammability Limit	2%	
Vapor Pressure	Not determined	
Vapor Density	2.8	(Air=1)
Specific Gravity	0.95	· · ·
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	

# **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

Heat, flames and sparks.

# **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 mild skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	May be 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)	-
Propylene oxide 75-56-9	= 520 mg/kg (Rat)	-	-

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

Symptoms	Please see section 4 of this SDS for symptoms
Symptoms	

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

- Germ cell mutagenicity May cause genetic defects.
- 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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Propylene oxide 75-56-9	A3	Group 2B	Reasonably Anticipated	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

# Numerical measures of toxicity

Not determined

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **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
Propylene oxide	240: 96 h	215: 96 h Lepomis	EC50 = 3300 mg/L 160 min	350: 48 h Daphnia magna
75-56-9	Pseudokirchneriella	macrochirus mg/L LC50	-	mg/L EC50
	subcapitata mg/L EC50	static		-

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### <u>Mobility</u>

Chemical Name	Partition Coefficient
Methyl ethyl ketone 78-93-3	0.29
Propylene oxide 75-56-9	0.08

# Other Adverse Effects

Not determined

# **13. DISPOSAL CONSIDERATIONS**

#### Waste Treatment Methods

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

# 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		

# California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methyl ethyl ketone	Toxic
78-93-3	Ignitable
Propylene oxide	Toxic
75-56-9	Ignitable

# 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
Hazard Class	3
Packing Group	II

ΙΑΤΑ	
UN/ID No	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II

#### IMDG

UN/ID No	UN1263
Proper Shipping Name	Paint
Hazard Class	3
Packing Group	II

# **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
Propylene oxide	100 lb	100 lb	RQ 100 lb final RQ
75-56-9			RQ 45.4 kg final RQ

#### **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Propylene oxide - 75-56-9	75-56-9	0.5-1.5	0.1

#### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Propylene oxide 75-56-9 ( 0.5-1.5 )	100 lb			Х

# US State Regulations

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

Chemical Name	California Proposition 65
Propylene oxide - 75-56-9	Carcinogen

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methyl ethyl ketone 78-93-3	Х	X	Х
Propylene oxide 75-56-9	Х	X	Х

# **16. OTHER INFORMATION**

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	3	3	0	Not determined
	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	3	0	X
Issue Date: Revision Date: Revision Note:	19-Sep-2012 18-Feb-2014 New format			

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