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www.TOLBER.com

Safety Data Sheet

Issue Date: 01-Jan-2011 Revision Date: 01-Jan-2024 Version 1

1. IDENTIFICATION

Product Identifier

Product Name MICCROTAPE® CEMENT

Other means of identification

SDS # TD-012-OSHA

UN/ID No UN1133

Recommended use of the chemical and restrictions on use

Recommended 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 870-777-3251

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

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red liquid Physical State Liquid Odor Ketone

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

Signal Word

Danger

Hazard Statements

Harmful if swallowed
Harmful if inhaled
Causes serious eye irritation
Suspected of causing 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

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear eye/face protection

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 Immediately call a poison center or doctor/physician

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

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

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

Unknown Acute Toxicity

15.8% of the mixture consists of ingredient(s) of unknown toxicity

UIZ-OSHA - MICCROTAFE CEMENT

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Methylisobutyl ketone	108-10-1	15-25
Acetone	67-64-1	15-25
Methyl ethyl ketone	78-93-3	10-20
Cyclohexanone	108-94-1	10-15
Tetrahydrofuran	109-99-9	5-10
Amyl acetate	628-63-7	0-5

^{**}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. Get medical advice/attention if you

feel unwell.

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

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

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Skin Contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower.

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

breathing.

Ingestion Do not induce vomiting. Call a physician immediately. Rinse mouth.

Most important symptoms and effects

Symptoms Harmful if inhaled. May cause drowsiness or dizziness. Headache. Fatigue and weakness.

May cause respiratory irritation. Causes serious eye irritation. Skin contact may result in irritation, defatting or dermatitis. Repeated exposure may cause skin dryness or cracking.

Ingestion may cause irritation, nausea, vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Foam.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor.

Hazardous Combustion Products Carbon oxides. Combustion may release noxious or toxic vapors.

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 protection recommended in Section 8.

For Emergency Responders Use personal protection recommended in Section 8. Remove all sources of ignition.

Environmental Precautions See Section 12 for additional Ecological Information. See Section 13: DISPOSAL

CONSIDERATIONS.

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. Dispose of all contaminated

trash in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Use personal protection recommended in Section 8. Wash face, hands and any exposed

skin thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use explosion proof equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharges. Avoid breathing

dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when

using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry 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
Methylisobutyl ketone	STEL: 75 ppm	TWA: 100 ppm	IDLH: 500 ppm
108-10-1	TWA: 20 ppm	TWA: 410 mg/m ³	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 205 mg/m ³
		(vacated) TWA: 205 mg/m ³	STEL: 75 ppm
		(vacated) STEL: 75 ppm	STEL: 300 mg/m ³
		(vacated) STEL: 300 mg/m ³	

Acetone	STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	TWA: 2400 mg/m ³	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 1800 mg/m ³	
		(vacated) STEL: 2400 mg/m ³	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors	
		(vacated) STEL: 1000 ppm	
Methyl ethyl ketone	STEL: 300 ppm	TWA: 200 ppm	IDLH: 3000 ppm
78-93-3	TWA: 200 ppm	TWA: 590 mg/m ³	TWA: 200 ppm
		(vacated) TWA: 200 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 590 mg/m ³	STEL: 300 ppm
		(vacated) STEL: 300 ppm	STEL: 885 mg/m ³
		(vacated) STEL: 885 mg/m ³	
Cyclohexanone	STEL: 50 ppm	TWA: 50 ppm	IDLH: 700 ppm
108-94-1	TWA: 20 ppm	TWA: 200 mg/m ³	TWA: 25 ppm
	S*	(vacated) TWA: 25 ppm	TWA: 100 mg/m ³
		(vacated) TWA: 100 mg/m ³	_
		(vacated) S*	
Tetrahydrofuran	STEL: 100 ppm	TWA: 200 ppm	IDLH: 2000 ppm
109-99-9	TWA: 50 ppm	TWA: 590 mg/m ³	TWA: 200 ppm
	S*	(vacated) TWA: 200 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 590 mg/m ³	STEL: 250 ppm
		(vacated) STEL: 250 ppm	STEL: 735 mg/m ³
		(vacated) STEL: 735 mg/m ³	-
Amyl acetate	STEL: 100 ppm	TWA: 100 ppm	IDLH: 1000 ppm
628-63-7	TWA: 50 ppm	TWA: 525 mg/m ³	TWA: 100 ppm
		(vacated) TWA: 100 ppm	TWA: 525 mg/m ³
		(vacated) TWA: 525 mg/m ³	· ·

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 Splash proof chemical safety goggles.

Chemical resistant, impermeable gloves. Suitable protective clothing. Long sleeve shirt and **Skin and Body Protection**

long pants. Protective shoes or boots.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands with soap and water before handling food. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid **Appearance** Red liquid

Odor Ketone

Color Red **Odor Threshold** Not determined

Remarks • Method Property Values

рΗ Not determined **Melting Point/Freezing Point** Not determined 100 °C 212 °F -14 °C / 7 °F **Boiling Point/Boiling Range**

Flash Point Tag Closed Cup

Evaporation Rate > 1.0 Flammability (Solid, Gas) Liquid-Not applicable **Upper Flammability Limits** Not determined

Lower Flammability Limit Not determined **Vapor Pressure** Not determined

Vapor Density (Air=1)>1.0

Specific Gravity 0.91

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.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Avoid contact. 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. May cause eye damage if direct contact occurs.

Skin Contact Avoid contact with skin. Repeated exposure may cause skin dryness or cracking.

Inhalation Harmful if inhaled.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methylisobutyl ketone 108-10-1	= 2080 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	= 8.2 mg/L (Rat) 4 h
Acetone 67-64-1	= 5800 mg/kg (Rat)	-	-
Methyl ethyl ketone 78-93-3	= 2737 mg/kg (Rat)	= 6480 mg/kg (Rabbit)	-
Cyclohexanone 108-94-1	= 800 mg/kg (Rat)	= 948 mg/kg (Rabbit)	= 10.7 mg/L (Rat) 4 h = 8000 ppm (Rat) 4 h

Tetrahydrofuran 109-99-9	= 1650 mg/kg (Rat)	-	= 53.9 mg/L (Rat) 4 h = 180 mg/L (Rat) 1 h
Amyl acetate 628-63-7	> 1600 mg/kg (Rat)	-	-
Formaldehyde, polymer with 1,3 dimethylbenzene 6422-86-2	20000 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
Methylisobutyl ketone 108-10-1	A3	Group 2B		X
Cyclohexanone 108-94-1	A3	Group 3		
Tetrahydrofuran 109-99-9	A3			

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans
Group 3 IARC components are "not classifiable as human carcinogens"

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

Unknown Acute Toxicity

15.8% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Methylisobutyl ketone	400: 96 h	496 - 514: 96 h Pimephales	EC50 = 79.6 mg/L 5 min	170: 48 h Daphnia magna
108-10-1	Pseudokirchneriella	promelas mg/L LC50 flow-		mg/L EC50
	subcapitata mg/L EC50	through		
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		
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

Cyclohexanone 20: 96 h Chlorella vulgaris 481 - 578: 96 h Pimephales EC50 = 18.5 mg/L 5 min800: 24 h Daphnia magna promelas mg/L LC50 flow-EC50 = 21.3 mg/L 10 minmg/L EC50 108-94-1 mg/L EC50 EC50 = 25 mg/L 5 minthrough 8.9: 96 h Pimephales promelas mg/L LC50 Tetrahydrofuran 1970 - 2360: 96 h 5930: 24 h Daphnia magna mg/L EC50 109-99-9 Pimephales promelas mg/L LC50 flow-through 2700 -3600: 96 h Pimephales promelas mg/L LC50 static Amyl acetate 650: 96 h Lepomis 628-63-7 macrochirus mg/L LC50

static

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Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Methylisobutyl ketone	1.19
108-10-1	
Acetone	-0.24
67-64-1	
Methyl ethyl ketone	0.29
78-93-3	
Cyclohexanone	0.86
108-94-1	
Tetrahydrofuran	0.45
109-99-9	

Other Adverse Effects

Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of WastesDisposal 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
Methylisobutyl ketone		Included in waste stream:		U161
108-10-1		F039		
Acetone		Included in waste stream:		U002
67-64-1		F039		
Methyl ethyl ketone	U159	Included in waste streams:	200.0 mg/L regulatory level	U159
78-93-3		F005, F039		
Cyclohexanone		Included in waste stream:		U057
108-94-1		F039		
Tetrahydrofuran	·			U213
109-99-9				

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Acetone	Ignitable
67-64-1	
Methyl ethyl ketone	Toxic
78-93-3	Ignitable
Tetrahydrofuran	Toxic
109-99-9	Ignitable
Amyl acetate	Toxic
628-63-7	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 UN1133
Proper Shipping Name Adhesives

Hazard Class 3
Packing Group II

<u>IATA</u>

UN/ID No UN1133
Proper Shipping Name Adhesives

Hazard Class 3
Packing Group ||

IMDG

UN/ID No UN1133
Proper Shipping Name Adhesives

Hazard Class 3
Packing Group II

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)
Methylisobutyl ketone	5000 lb		RQ 5000 lb final RQ
108-10-1			RQ 2270 kg final RQ
Acetone 67-64-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Methyl ethyl ketone 78-93-3	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Cyclohexanone 108-94-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Tetrahydrofuran 109-99-9	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Amyl acetate 628-63-7	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 313

Revision

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Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methylisobutyl ketone - 108-10-1	108-10-1	15-25	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Amyl acetate 628-63-7 (0-5)	5000 lb			Х

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Methylisobutyl ketone - 108-10-1	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Methylisobutyl ketone	X	X	X
108-10-1			
Acetone	X	X	X
67-64-1			
Methyl ethyl ketone	X	X	X
78-93-3			
Cyclohexanone	X	X	X
108-94-1			
Tetrahydrofuran	X	X	X
109-99-9			
Amyl acetate	X	X	X
628-63-7			

16. OTHER INFORMATION

NFPA **Health Hazards Flammability** Instability **Special Hazards** Not determined Not determined Not determined Not determined **Personal Protection Health Hazards Flammability Physical Hazards** HMIS Not determined Not determined Not determined Not determined

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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