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www.TOLBER.com

Safety Data Sheet

Issue Date: 01-Jan-2012 Revision Date: 18-Feb-2024 Version 1

1. IDENTIFICATION

Product Identifier

Product Name MICCROPATCH®

Other means of identification

SDS # TD-014-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 AddressTolber 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 Black liquid Physical State Liquid Odor Ketone

Classification

Acute toxicity - Inhalation (Vapors)	Category 4
	5 ,
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

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed May be harmful in contact with skin

Signal Word Danger

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Hazard Statements

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

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

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

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

Do not induce vomiting

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

22.11% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS Chemical Name CAS No Weight-% Methyl ethyl ketone 78-93-3 40-50 Methylisobutyl ketone 108-10-1 18-28 Cyclohexanone 108-94-1 5-10 Amorphous silica (glass) 7631-86-9 5-10

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.

Eve ContactRinse 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. Drink water to dilute. Call a physician or poison control center

immediately.

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. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Vapors are heavier than air and may travel along ground to ignition sources and flash back.

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.

Dama 2/0

^{**}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.**

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8.

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

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.

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
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	
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	
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*	
Amorphous silica (glass)	-	(vacated) TWA: 6 mg/m ³ <1%	IDLH: 3000 mg/m ³
7631-86-9		Crystalline silica	TWA: 6 mg/m ³
		TWA: 20 mppcf	
		: (80)/(% SiO2) mg/m ³ TWA	

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.

Skin and Body ProtectionChemical resistant, impermeable gloves. Suitable protective clothing. Long sleeve shirt and

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. Avoid breathing fumes emitted during drying.

Odor

Ketone

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid
Appearance Black liquid

Color Black Odor Threshold Not determined

Property Values Remarks • Method

pH Not determined

Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range50 °C / 122 °F(at 760 mm Hg)Flash Point2 °C / 36 °FTag Closed CupEvaporation Rate1.4(butyl acetate = 1)

Flammability (Solid, Gas) Liquid-Not applicable

Upper Flammability Limits 12% Lower Flammability Limit 2%

Vapor Pressure Not determined

Vapor Density 1.0 (Air=1)

Specific Gravity 1.2 **Water Solubility** Negligible 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.

Hazardous Polymerization Hazardous polymerization does not occur.

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. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye ContactCauses serious eye irritation. May cause eye damage if direct contactoccurs.

Skin Contact May be harmful in contact with skin. Repeated exposure may cause skin dryness or

cracking.

Inhalation Harmful if inhaled. Avoid breathing vapors or mists.

Ingestion May be harmful if swallowed. Ingestion can cause irritation, nausea, or stomach distress.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl ethyl ketone 78-93-3	= 2737 mg/kg (Rat)	= 6480 mg/kg (Rabbit)	-
Methylisobutyl ketone 108-10-1	= 2080 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	= 8.2 mg/L (Rat) 4 h
Cyclohexanone 108-94-1	= 800 mg/kg (Rat)	= 948 mg/kg (Rabbit)	= 10.7 mg/L (Rat) 4 h = 8000 ppm (Rat) 4 h
Amorphous silica (glass) 7631-86-9	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.2 mg/L (Rat) 1 h
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		
Amorphous silica (glass) 7631-86-9		Group 3		

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

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STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity

22.11% 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	
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
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		
Cyclohexanone	20: 96 h Chlorella vulgaris	481 - 578: 96 h Pimephales	EC50 = 18.5 mg/L 5 min	800: 24 h Daphnia magna
108-94-1	mg/L EC50	promelas mg/L LC50 flow-	EC50 = 21.3 mg/L 10 min	mg/L EC50
		through 8.9: 96 h	EC50 = 25 mg/L 5 min	
		Pimephales promelas mg/L		
		LC50		
Amorphous silica (glass)	440: 72 h	5000: 96 h Brachydanio rerio		7600: 48 h Ceriodaphnia
7631-86-9	Pseudokirchneriella	mg/L LC50 static		dubia mg/L EC50
	subcapitata mg/L EC50			

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Methyl ethyl ketone 78-93-3	0.29
Methylisobutyl ketone 108-10-1	1.19
Cyclohexanone 108-94-1	0.86

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and locallaws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and locallaws 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		
Methylisobutyl ketone		Included in waste stream:		U161
108-10-1		F039		
Cyclohexanone		Included in waste stream:		U057
108-94-1		F039		

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Methyl ethyl ketone	Toxic
78-93-3	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** П

IATA

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

IMDG

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

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
Methylisobutyl ketone	5000 lb		RQ 5000 lb final RQ
108-10-1			RQ 2270 kg final RQ
Cyclohexanone	5000 lb		RQ 5000 lb final RQ
108-94-1			RQ 2270 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methylisobutyl ketone - 108-10-1	108-10-1	18-28	1.0

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
Methyl ethyl ketone 78-93-3	X	X	X
Methylisobutyl ketone 108-10-1	Х	X	Х
Cyclohexanone 108-94-1	X	X	X
Amorphous silica (glass) 7631-86-9	X	X	X

16. OTHER INFORMATION

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