

# **Safety Data Sheet**

Issue Date: 01-Jan-2012 Revision Date: 01-Mar-2024 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name MICCRO® SH-210 VOC Free

Other means of identification

SDS # TD-018

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** 

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

**Emergency Telephone Number** 

Company Phone Number (870) 777-5759

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 Acetone

# Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Flammable Liquids	Category 2

#### **Hazards Not Otherwise Classified (HNOC)**

Causes mild skin irritation

Signal Word

Danger

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#### **Hazard Statements**

Harmful if swallowed

Causes serious eye irritation

May cause an allergic skin reaction

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

Do not eat, drink or smoke when using this product

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

Contaminated work clothing should not be allowed out of the workplace

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

Wear protective gloves/protective clothing/eye protection/face protection

#### **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 skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

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

# <u>Precautionary Statements - Disposal</u>

Dispose of contents/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Acetone	67-64-1	70-80
Vinyl chloride	75-01-4	20-30
Vinyl acetate	108-05-4	1-10
Propylene oxide	75-56-9	<5
Maleic acid	110-16-7	<1

<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

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.

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**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse. Get medical attention if irritation occurs.

**Inhalation** Remove to fresh air.

Ingestion Rinse mouth. Do not induce vomiting. Call a poison center or doctor/physician if you feel

unwell.

#### Most important symptoms and effects

**Symptoms** Skin contact can lead to drying, defatting, itching, stinging and irritation. Vapors may irritate

eye; Liquid and mist may severely irritate or damage the eye. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue,

dizziness and nausea. 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

Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

# Specific Hazards Arising from the Chemical

Vapors are heavier than air and may spread along floors. Vapors may travel to source of ignition and flash back.

#### 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** Remove all sources of ignition.

# 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 Contain and collect with an inert absorbent and place into an appropriate container for

disposal.

# 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 thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Use only in well-ventilated areas. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and

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receiving 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
Acetone	STEL: 750 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	TWA: 2400 mg/m <sup>3</sup>	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	
		(vacated) STEL: 2400 mg/m <sup>3</sup>	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors	
		(vacated) STEL: 1000 ppm	
Vinyl chloride	TWA: 1 ppm	TWA: 1 ppm	-
75-01-4		STEL: 5 ppm see 29 CFR	
		1910.1017	
Vinyl acetate	STEL: 15 ppm	(vacated) TWA: 10 ppm	Ceiling: 4 ppm 15 min
108-05-4	TWA: 10 ppm	(vacated) TWA: 30 mg/m <sup>3</sup>	Ceiling: 15 mg/m <sup>3</sup> 15 min
		(vacated) STEL: 20 ppm	
		(vacated) STEL: 60 mg/m <sup>3</sup>	
Propylene oxide	TWA: 2 ppm	TWA: 100 ppm	IDLH: 400 ppm
75-56-9		TWA: 240 mg/m <sup>3</sup>	
		(vacated) TWA: 20 ppm	
		(vacated) TWA: 50 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

Chemical splash goggles. **Eye/Face Protection** 

**Skin and Body Protection** Long sleeve shirt and long pants. Protective shoes or boots. Solvent resistant gloves.

Wear a NIOSH approved respirator. **Respiratory Protection** 

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** Liquid **Appearance** Red liquid

Odor Acetone Color Red **Odor Threshold** Not determined

Remarks • Method **Property** <u>Values</u>

Not determined pН **Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** 48 °C / 118 °F

-4 °C / 24 °F **Flash Point** Tag Closed Cup **Evaporation Rate** 5.0 (butyl acetate = 1)

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 Not soluble 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**

Heat, flames and sparks.

#### **Incompatible Materials**

Strong oxidizing agents.

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#### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Causes mild skin irritation. May cause an allergic skin reaction.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Harmful if swallowed.

**Component Information** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	= 5800 mg/kg ( Rat )	-	-
67-64-1			
Vinyl chloride	= 500 mg/kg (Rat)	-	-
75-01-4			
Vinyl acetate	= 2920 mg/kg (Rat)	= 2320 mg/kg ( Rabbit )	= 11.4 mg/L (Rat) 4 h = 3200 ppm
108-05-4			( Rat ) 4 h
Propylene oxide	= 520 mg/kg ( Rat )	-	-
75-56-9			
Maleic acid	= 708 mg/kg ( Rat )	= 1560 mg/kg ( Rabbit )	> 0.72 mg/L (Rat) 1 h
110-16-7			

# 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

**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.

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Chemical Name	ACGIH	IARC	NTP	OSHA
Vinyl chloride 75-01-4	A1	Group 1	Known	Х
Vinyl acetate 108-05-4	A3	Group 2B		Х
Propylene oxide 75-56-9	A3	Group 2B	Reasonably Anticipated	Х

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

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.

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# **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
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		
Vinyl chloride	943: 48 h Chilomonas	210: 96 h Brachydanio rerio		
75-01-4	paramecium mg/L EC50	mg/L LC50		
Vinyl acetate		14: 96 h Pimephales	EC50 = 2080 mg/L 5 min	52: 24 h Daphnia magna
108-05-4		promelas mg/L LC50 static		mg/L EC50
		15.04 - 21.54: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 26.1 - 36.63: 96 h		
		Poecilia reticulata mg/L		
		LC50 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		
Maleic acid		5: 96 h Pimephales promelas		250 - 400: 48 h Daphnia
110-16-7		mg/L LC50 static		magna mg/L EC50

# Persistence/Degradability

Not determined.

# **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Acetone 67-64-1	-0.24
Vinyl chloride 75-01-4	1.58
Vinyl acetate 108-05-4	0.73
Propylene oxide 75-56-9	0.08
Maleic acid 110-16-7	0.32

# **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.

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**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
Acetone		Included in waste stream:		U002
67-64-1		F039		
Vinyl chloride	U043	Included in waste streams:	0.2 mg/L regulatory level	U043
75-01-4		F024, F025, F039, K019,		
		K020, K028, K029		ļ

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Vinyl chloride	Category I - Volatiles		Toxic waste	
75-01-4			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
Acetone	Ignitable
67-64-1	
Vinyl acetate	Toxic
108-05-4	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** Ш

IATA

UN/ID No UN1263 **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

# 15. REGULATORY INFORMATION

# **International Inventories**

**TSCA** 

All ingredients are listed or exempt from listing on Chemical Substance Inventory

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#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

# US Federal Regulations

# **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acetone	5000 lb		RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
Vinyl chloride	1 lb		RQ 1 lb final RQ
75-01-4			RQ 0.454 kg final RQ
Vinyl acetate	5000 lb	5000 lb	RQ 5000 lb final RQ
108-05-4			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
Maleic acid	5000 lb		RQ 5000 lb final RQ
110-16-7			RQ 2270 kg final RQ

# **SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Vinyl chloride - 75-01-4	75-01-4	20-30	0.1
Vinyl acetate - 108-05-4	108-05-4	1-10	0.1
Propylene oxide - 75-56-9	75-56-9	<5	0.1

# **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Vinyl chloride 75-01-4(20-30)		X	X	
Vinyl acetate 108-05-4(1-10)	5000 lb			Х
Propylene oxide 75-56-9 ( <5 )	100 lb			Х
Maleic acid 110-16-7 ( <1 )	5000 lb			Х

# **US State Regulations**

# **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65	
Vinyl chloride - 75-01-4	Carcinogen	
Propylene oxide - 75-56-9	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Acetone 67-64-1	Х	X	X
Vinyl chloride 75-01-4	Х	X	X
Vinyl acetate 108-05-4	Х	X	Х
Propylene oxide 75-56-9	Х	X	Х
Maleic acid 110-16-7	Х	X	X

# **16. OTHER INFORMATION**

NFPAHealth Hazards<br/>Not determinedFlammability<br/>Not determinedInstability<br/>Not determinedSpecial Hazards<br/>Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection<br/>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**