

Material Safety Data Sheet

Material Name: Mayco Stim-XLZ

MSDS ID: MWI-022

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Mayco Wellchem, Inc.
1525 N. Post Oak Road
Houston, TX 77055

Phone: (713) 688-2602
Fax: 713-688-3620
Emergency # 1 (888) 688-4467

General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Hazards Identification ***

Emergency Overview

WARNING! FLAMMABLE! This product is a clear, amber colored liquid. Liquid and vapors are flammable.

EYE AND SKIN IRRITANT. This product is irritating to the eyes, respiratory system and skin. May cause respiratory tract irritation. May be harmful if swallowed. May cause skin sensitization.

Hazard Statements

WARNING! FLAMMABLE! Flammable liquid and vapor. Vapor may travel to a source of ignition and flashback.

EYE AND SKIN IRRITANT. This product is irritating to the eyes, respiratory system and skin. May cause respiratory tract irritation. May be harmful if swallowed. May cause skin sensitization.

Potential Health Effects: Eyes

This product is irritating to the eyes. Prolonged or repeated exposure may cause injury to the eyes.

Potential Health Effects: Skin

This product may cause skin sensitization with allergic rashes, inflammation, drying, cracking, and/or burns of the skin. Prolonged or repeated exposure may cause skin damage.

Potential Health Effects: Ingestion

Ingestion of this product may be harmful with symptoms including: central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior, unconsciousness, nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhea.

Potential Health Effects: Inhalation

Heating this product may release harmful vapors. This product is irritating to the respiratory system. This product can be harmful by inhalation. Symptoms of exposure may include nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Nausea, headache, and/or dizziness.

HMIS Ratings: Health: 2 Fire: 2 Physical Hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
71-23-8	n-Propyl alcohol	35-40
Proprietary	Zirconium compound	30-35
102-71-6	Triethanolamine	30-35

Component Information/Information on Non-Hazardous Components

This product is considered to be hazardous according to 29 CFR 1910.1200 (Hazard Communication Standard).

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.

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First Aid: Skin

For skin contact, wash immediately with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions.

First Aid: Inhalation

Remove to fresh air. Seek prompt medical attention.

First Aid: Notes to Physician

If burn is present, treat as any thermal burn, after decontamination. Provide general supportive measures and treat symptomatically.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.

Product is a flammable liquid. Oxidizing chemicals may accelerate the burning rate in a fire situation. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, nitrogen oxides.

Extinguishing Media

Alcohol foam, dry chemical, carbon dioxide, water.

Fire Fighting Equipment/Instructions

Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Ratings: Health: 2 Fire: 2 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures

Remove sources of ignition. Dike the spilled material, where this is possible. Block any potential routes to water systems.

Clean-Up Procedures

Absorb spill with inert material (avoid sawdust or cellulose). Vacuum or sweep material into open labeled containers for disposal.

Evacuation Procedures

Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering.

Special Procedures

Wear appropriate personal protection equipment. See Section 8 for proper protection equipment. Avoid inhalation of vapor, fumes, dust and/or mist from the spilled material. Avoid skin contact with the spilled material.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. Ensure containers are bonded during transfer.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place.

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*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

n-Propyl alcohol (71-23-8)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 200 ppm TWA; 500 mg/m³ TWA (Vacated)
250 ppm STEL; 625 mg/m³ STEL (Vacated)

Triethanolamine (102-71-6)

ACGIH: 5 mg/m³ TWA

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Impervious gloves should be used at all times when handling this product. Selection of specific item such as boots, apron, or full-body suit will depend on operation.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors, appropriate NIOSH respiratory protection must be provided

Personal Protective Equipment: General

Follow good industrial hygiene practices when using this product. Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Clear, amber-colored liquid	Odor:	Characteristic
Physical State:	Liquid	pH:	Neutral
Vapor Pressure:	15mmHg@68°F (20°C)	Vapor Density:	1.0
Boiling Point:	207°F (97.2°C)	Melting Point:	Not applicable
Solubility (H₂O):	Soluble	Specific Gravity:	1.048
Flash Point:	Not available	Flash Point Method:	Not available
Flammability Class:	Not available	Auto Ignition:	Not available
LFL:	Not available	UFL:	Not available
Freezing Point:	Not available	Evaporation Rate:	Slower than Ethyl ether

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Avoid heat, flames, sparks, and other sources of ignition.

Incompatibility

Strong oxidizing agents (peroxides, chlorine, strong acids). Incompatible with aluminum, lead, copper, copper alloys, halogenated hydrocarbons, absorbent combustible materials such as cellulose and sawdust.

Hazardous Decomposition

Oxides of carbon.

Possibility of Hazardous Reactions

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No additional information available.

B: Component Analysis - LD50/LC50

n-Propyl alcohol (71-23-8)

Inhalation LC50 Rat: >9.8 mg/L/4H; Oral LD50 Rat: 1870 mg/kg; Dermal LD50 Rabbit: 4049 mg/kg

Triethanolamine (102-71-6)

Oral LD50 Rat: 4190 mg/kg; Dermal LD50 Rabbit: >2000 mg/kg

Carcinogenicity

A: General Product Information

No additional information available.

B: Component Carcinogenicity

Triethanolamine (102-71-6)

IARC: Monograph 77, 2000 (Group 3 (not classifiable))

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No additional information available.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

n-Propyl alcohol (71-23-8)

Test & Species

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	4480 mg/L	flow-through
5 min EC50 Photobacterium phosphoreum	17700 mg/L	
15 min EC50 Photobacterium phosphoreum	8686 mg/L	
12 Hr EC50 Nitrosomonas	980 mg/L	
5 Hr EC50 Escherichia coli	45000 mg/L	
48 Hr EC50 Daphnia magna	3642 mg/L	

Triethanolamine (102-71-6)

Test & Species

Test & Species	Concentration	Conditions
96 Hr LC50 Pimephales promelas	11800 mg/L	flow-through
96 Hr LC50 Lepomis macrochirus	450-1000 mg/L	static
72 Hr EC50 Scenedesmus subspicatus	216 mg/L	
96 Hr EC50 Scenedesmus subspicatus	169 mg/L	
30 min EC50 Pseudomonas putida	>10000 mg/L	
24 Hr EC50 Daphnia magna	1386 mg/L	

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: n-Propanol mixture

UN/NA #: UN1274 Hazard Class: 3 Packing Group: II

Required Label(s): FLAMMABLE

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Acute Health: Yes **Chronic Health:** No **Fire:** Yes **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
n-Propyl alcohol	71-23-8	Yes	Yes	Yes	Yes	Yes	Yes
Triethanolamine	102-71-6	No	Yes	Yes	No	Yes	Yes

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
n-Propyl alcohol	71-23-8	1 %
Triethanolamine	102-71-6	1 %

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

TSCA = U.S. EPA TSCA non-confidential inventory

CAN = Canadian DSL and NDSL Inventories status

EU = European Union EINECS and ELINCS Inventories status

No = Not Present on the Designated Inventory(s).

Note: Substances not listed may be automatically included as in the case of naturally occurring substances, hydrates, or may be considered exempt as in the case of certain polymers.

Component	CAS #	TSCA	CAN	EU
n-Propyl alcohol	71-23-8	Yes	DSL	EINECS
Zirconium compound	Proprietary	Yes	No	EINECS
Triethanolamine	102-71-6	Yes	DSL	EINECS

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* * * Section 16 - Other Information * * *
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Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

MSDS History

New MSDS: 04/17/2006

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. DSL = Canadian Domestic Substance List. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.

Contact: Thom Venus

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End of Sheet MWI-022