

Material Safety Data Sheet

Material Name: Mayco Stim-450

ID: MWI-007

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

Product Use: Foaming Agent

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

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent	ACGIH	OSHA
Proprietary	Ethyl alcohol	Proprietary	1000 ppm TWA	1000 ppm TWA; 1900 mg/m3 TWA (Final)
Proprietary	Sodium lauryl ether sulfate	Proprietary	-----	-----
Proprietary	Cocamidopropyl Betaine	Proprietary	-----	-----
Proprietary	Methyl alcohol	Proprietary	200 ppm TWA 250 ppm STEL skin - potential for cutaneous absorption	200 ppm TWA; 260 mg/m3 TWA (Final)
Proprietary	Water	Proprietary	-----	-----

----- Indicates not available

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview

DANGER! POISON FLAMMABLE Product is a clear liquid with a slight odor. This product is harmful or fatal if swallowed, inhaled, or absorbed through the skin. This product may be severely irritating to the eyes. This product may cause irritation to the skin. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. May cause blindness.

Potential Health Effects: Eyes

This product may be severely irritating to the eyes.

Potential Health Effects: Skin

This product may be harmful if it is absorbed through the skin. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Potential Health Effects: Ingestion

This product is harmful or fatal if swallowed. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. This product may cause blindness if it is swallowed. Ingestion may cause liver and kidney damage.

Potential Health Effects: Inhalation

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.

Medical Conditions Aggravated

Preexisting liver and kidney disorders. Preexisting eye, skin and respiratory disorders.

HMIS Ratings: Health: 2* Fire: 3 Reactivity: 0

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

*** 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, flush with large amounts of water. If irritation persists, get medical attention. Immediately take off all contaminated clothing. Wash contaminated clothing before reuse.

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. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen by trained personnel. Seek prompt medical attention.

First Aid: Notes to Physician

This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

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

Flash Point: 90°F (32°C)

Upper Flammable Limit (UFL): Not determined

Auto Ignition: 438°C (820°F)

Rate of Burning: Not Available

General Fire Hazards

Fire and explosion hazards are moderate when this product is exposed to heat or flame. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Container may explode in heat of fire.

Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide, carbon dioxide, sulfur oxides and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog. Use water to cool fire-exposed containers and to protect personnel.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

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

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

Containment Procedures

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Remove sources of ignition. Block any potential routes to water systems.

Clean-Up Procedures

Ventilate the contaminated area. Eliminate ignition sources including sources of electrical, static or frictional sparks. Do not allow the spilled product to enter public drainage system or open water courses. Absorb spill with inert material. Shovel material into appropriate container for disposal.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Regulations vary. Consult local authorities before disposal.

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

Handling Procedures

Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe gas/fumes/vapor/spray. Wash thoroughly after handling. Use non-sparking tools when opening or closing containers. Use this product with adequate ventilation. Do not cut or weld on empty drums. Sufficient vapors from residues may be present to cause explosion and serious injury and/or death. Keep this product from heat, sparks, or open flame.

Storage Procedures

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

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

Exposure Guidelines

Follow all applicable exposure limits.

Engineering Controls

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

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

Personal Protective Equipment: Skin

Use impervious gloves. Use of an impervious apron is recommended.

Personal Protective Equipment: Respiratory

When respiratory protection is required, wear a NIOSH/MSHA approved self-contained breathing apparatus with full facepiece operated in a positive-pressure mode.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

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

Appearance:	Clear	Odor:	Slight
Physical State:	Liquid	pH:	6-8
Vapor Pressure:	Not determined	Vapor Density:	Not determined
Boiling Point:	170°F	Melting Point:	Not determined
Solubility (H₂O):	Emulsifies	Specific Gravity:	0.9881
Freezing Point:	Not determined	Evaporation Rate:	>100

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

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials.

Incompatibility

This product may react with oxidizing agents.

Hazardous Decomposition

Upon decomposition, this product emits oxides of sulfur, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

No information available for the product.

Methanol when splashed in the eyes can cause superficial lesions of the cornea. Prolonged or repeated skin contact will cause dermatitis, erythema, and scaling. Although methanol poisoning occurs primarily through ingestion, symptoms can also occur from inhalation or absorption through the skin. Cases of vision impairment have been reported from absorption. These changes are marked by blurred or double vision, changes in color perception to constricted visual fields and complete blindness. Patients who recover from methanol poisoning may be permanently blind. Exposure to vapor concentrations ranging from 365 to 3080 ppm may lead to blurred vision, headache, dizziness, and nausea. Symptoms of methanol exposure include: optic neuropathy, metabolic acidosis, headache, shortness of breath, dizziness, vertigo and respiratory depression. Overexposure to methanol may damage the optic nerve resulting in permanent loss of vision or total blindness. Inhalation of vapors can cause respiratory tract irritation, headache, dizziness, weakness, nausea, and possibly unconsciousness. Severe exposure may cause convulsions, respiratory depression, and death from respiratory failure.

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Ethyl alcohol is irritating to the eyes, nose and respiratory system at very high vapor concentrations. Repeated ingestion of ethyl alcohol may result in liver damage.

B: Component Analysis - LD50/LC50

Methyl alcohol (Proprietary)

Inhalation LC50 Rat: 64000 ppm/4H

Oral LD50 Rat: 5628 mg/kg

Oral LD50 Mouse: 7300 mg/kg

Dermal LD50 Rabbit: 15800 mg/kg

Ethyl alcohol (Proprietary)

Inhalation LC50 Rat: 20000 ppm/10H

Inhalation LC50 Mouse: 39 gm/m³/4H

Oral LD50 Rat: 7060 mg/kg

Oral LD50 Mouse: 3450 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by IARC, OSHA, or NTP.

Chronic Toxicity

No information available for the product.

Chronic inhalation or skin absorption of methanol may cause liver, kidney, central nervous, cardiovascular system damage, or reproductive and developmental effects.

Epidemiology

No information available for the product.

Neurotoxicity

No information available for the product.

Methyl alcohol can produce damage to the optic nerve and central and motor nerves.

Mutagenicity

No information available for the product.

In developmental animal studies, methanol produced malformations in mice and rats following inhalation during gestation; slight maternal toxicity was also observed.

Ethyl alcohol is responsible for fetal alcohol syndrome, which includes a number of teratogenic results: spontaneous abortions, birth defects and developmental problems.

Teratogenicity

No information available for the product.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Methyl alcohol (Proprietary)

LC50 (96 hr) fathead minnow (28-29 days old): 29400 mg/L. Cond: 25 degrees C, pH 7.63-7.69, 43.5 mg/L CaCo₃; LC50

(96 hr) rainbow trout (fingerling): 13-68 mg/L. Cond. 12 degrees C.; LC50 (48 hr) trout: 8000 mg/L. EC50 (30 min)

Photobacterium phosphoreum: 51,000-320,000 mg/L Microtox test.

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Ethyl alcohol (Proprietary)

LC50 (96 hr) rainbow trout (30 days old): 12900-15300 mg/L. Cond: Flow-through, 24-24.3 degrees C, pH 7.56-7.60, 40.9-43.7 mg/L CaCO₃; LC50 (24 hr) fingerling trout: 11200 mg/L.; EC50 (5-30 min) Photobacterium phosphoreum: 34900 mg/L Microtox test.

Environmental Fate

No information available for the product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, this product is considered a RCRA ignitable waste, D001. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

Methyl alcohol (Proprietary)

RCRA: waste number U154; (Ignitable waste)

Disposal Instructions

Regulations vary. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Alcohols, n.o.s. (Contains Methyl alcohol, Ethyl alcohol)

Hazard Class: 3

UN/NA #: UN1987

Packing Group: II

Required Label(s): FLAMMABLE LIQUID

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Methyl alcohol (Proprietary)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 5000 pounds (2270 kg)

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

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

Component	CAS #	CA	FL	MA	MN	NJ	PA
Methyl alcohol	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Other Regulations

A: General Product Information

No information available.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Water	Proprietary	Yes	Yes	Yes
Methyl alcohol	Proprietary	Yes	Yes	Yes
Cocamidopropyl Betaine	Proprietary	Yes	Yes	Yes
Sodium lauryl ether sulfate	Proprietary	Yes	Yes	No
Ethyl alcohol	Proprietary	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

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

Component	CAS #	
Methyl alcohol	Proprietary	1% item 1012 (183)
Ethyl alcohol	Proprietary	0.1% item 684 (805)

* * * Section 16 - Other Information * * *

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.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration, NJTSR = New Jersey Trade Secret Registry. HEPA = High Efficiency Particulate Air

Contact: Thomas L. Venus

Contact Phone: (713) 688-2602

This is the end of MSDS # MWI-007