

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

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

Chemical Name: Organic solvent

Product Use: Solvent

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	Short chain glycol ether	40-70	20 ppm TWA	25 ppm TWA; 120 mg/m3 TWA (Vacated) Prevent or reduce skin absorption (Vacated)
Proprietary	Ethoxylated alcohol	15-40	Not established	Not established
Proprietary	Proprietary alcohol	15-40	200 ppm TWA 400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA (Vacated) 500 ppm STEL; 1225 mg/m3 STEL (Vacated)
Proprietary	Oxyalkylated alcohol	7-13	Not established	Not established

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Glycol ethers.

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! Flammable! Product is a clear, flammable liquid with a strong odor. May be severely irritating to the eyes and skin. This product is harmful by inhalation and if it is swallowed. This product is harmful if absorbed through the skin. Exposure to this product may cause central nervous system, kidney and liver damage and blood disorders. Contact with this product may cause skin sensitization.

Potential Health Effects: Eyes

This product may be severely irritating to the eyes. Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Potential Health Effects: Skin

This product is severely irritating to the skin. Product is harmful if absorbed through the skin. This product contains oxyalkylated alcohol which can cause skin sensitization.

Potential Health Effects: Ingestion

This product is harmful if swallowed. Ingestion of this product may result in central nervous system stimulation including muscle twitching, generalized weakness, difficulty breathing and coma.

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, kidney, blood, eye skin and respiratory disorders.

HMIS Ratings: Health: 3* Fire: 3 Physical Hazard: 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.

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

First Aid: Skin

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

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician

No additional information available.

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

Flash Point: 55°F (13°C) Based on proprietary alcohol

Upper Flammable Limit (UFL): 12.7% at 275°F (135°C)

Based on glycol ether

Auto Ignition: 460°F (238°C) Based on glycol ether

Rate of Burning: Not applicable

General Fire Hazards

Flammable liquid. "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.

Hazardous Combustion Products

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

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

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

NFPA Ratings: Health: 3 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

Avoid skin contact with the spilled material. Surfaces may become slippery after spillage. 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 vapors or mists. 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.

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

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

Exposure Guidelines

Follow all applicable exposure limits.

Engineering Controls

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

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles. Add full face shield if splashing is possible.

Personal Protective Equipment: Skin

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

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors and mists, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

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

Appearance:	Clear	Odor:	Strong
Physical State:	Liquid	pH:	Not determined
Vapor Pressure:	Not determined	Vapor Density:	2.6
Boiling Point:	179°F (354°C)	Melting Point:	Not applicable
Solubility (H2O):	Soluble	Specific Gravity:	0.90
Freezing Point:	Not determined	Evaporation Rate:	Not determined
Percent Volatile:	>90%		

*** 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 strong bases and oxidizing agents.

Hazardous Decomposition

Upon decomposition, this product emits 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 additional information available for the product.

B: Component Analysis - LD50/LC50

Short chain glycol ether (Proprietary)

Inhalation LC50 Rat: 450 ppm/4H; Inhalation LC50 Mouse: 700 ppm/7H; Oral LD50 Rat: 470 mg/kg; Oral LD50 Mouse: 1230 mg/kg; Dermal LD50 Rabbit: 220 mg/kg

Proprietary alcohol (Proprietary)

Inhalation LC50 Rat: 16000 ppm/8H; Oral LD50 Rat: 5045 mg/kg; Oral LD50 Mouse: 3600 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Proprietary alcohol (Proprietary)

IARC: Monograph 71, 1999; Supplement 7, 1987; Monograph 15, 1977 (Group 3 (not classifiable))

Chronic Toxicity

No information available for the product. This product contains a glycol ether which may cause CNS depression characterized by headache, drowsiness, weakness, slurred speech, stuttering, loss of coordination and judgment, tremor, blurred vision, personality changes, and albuminuria. Overexposure to glycol ethers may also result in liver or kidney damage, and hemolytic effects.

Teratogenicity

No information available for the product. The glycol ether in this product has produced no significant and reversible effects on testicular weights in rats. Other studies have shown no testicular effects on mice or rats. The embryo- and fetotoxic effects of the glycol ether were shown upon inhalation in pregnant rats, however, maternal toxicity was also present. Other studies have found no embryo- or fetotoxic effects.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Short chain glycol ether (Proprietary)

Test & Species

96 Hr LC50 bluegill	1490 mg/L
24 Hr LC50 goldfish	1650 mg/L
24 Hr LC50 water flea	1720 mg/L

Conditions

Static

Proprietary alcohol (Proprietary)

Test & Species

96 Hr LC50 fathead minnow (29 days old)	94900 mg/L
96 Hr LC50 fathead minnow (31 days old)	61200 mg/L
5 min EC50 Photobacterium phosphoreum	35390 mg/L

Conditions

flow-through

flow-through

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

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

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: Flammable liquids, toxic, n.o.s. (Contains: Short chain glycol ether, Ethoxylated alcohol)

UN/NA #: UN1992 **Hazard Class:** 3 **Packing Group:** II

Required Label(s): Flammable, Toxic

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

TDG Information

Shipping Name: Flammable liquid, toxic, n.o.s. (Contains: Short chain glycol ether, Ethoxylated alcohol)

UN/NA #: UN1992 **Hazard Class:** 3, (6.1) **Packing Group:** II

*** 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).

Short chain glycol ether (Proprietary)

SARA 313: 1.0 percent de minimis concentration (applies to R-(OCH₂CH₂)_n-OR' ethers, where n = 1,2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230) (related to Glycol ethers)

Proprietary alcohol (Proprietary)

SARA 313: 1.0 percent de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

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

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	MA	MN	NJ	PA	RI
Short chain glycol ether	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Proprietary alcohol	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

WHMIS Classification

D1A - Acutely Lethal

D2B - Toxic Material

B2 - Flammable liquid

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis – Inventory

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
Short chain glycol ether	Proprietary	Yes	DSL	EINECS
Ethoxylated alcohol	Proprietary	Yes	DSL	No
Proprietary alcohol	Proprietary	Yes	DSL	EINECS

Material Safety Data Sheet

Material Name: Mayco Stim-25

ID: MWI-018

C: Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Short chain glycol ether	Proprietary	1% (English Item 721, French Item 824)
Proprietary alcohol	Proprietary	1% (English Item 904, French Item 1050)

* * * 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.

MSDS History

New MSDS: 09/15/2003

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: Thomas L. Venus

Contact Phone: (713) 688-2602

This is the end of MSDS # MWI-018