

Material Safety Data Sheet

Material Name: Mayco Stim-350

ID: MWI-002

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

Chemical Name: Blend

Product Use: Mutual 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	Ethoxylated alcohol	Proprietary		
Proprietary	Short chain glycol ether	Proprietary	20 ppm TWA skin - potential for cutaneous absorption	50 ppm TWA; 240 mg/m3 TWA (Final)

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

WARNING! COMBUSTIBLE! Product is a clear, combustible liquid with a mild odor. May be severely irritating to the eyes and skin. This product is harmful by inhalation, when in contact with the skin and if it is swallowed.

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 and may cause burns. Prolonged or repeated skin contact may result in redness, burning sensation or dermatitis. Product contains components which may be absorbed through the skin.

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

Disorders of the blood. Preexisting liver and kidney disorders. Preexisting eye, skin and respiratory disorders.

HMIS Ratings: Health: 2* Fire: 2 Reactivity: 0 Pers. Prot.:

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

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

First Aid: Eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

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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: 152°F (66.7°C)

Upper Flammable Limit (UFL): Not Applicable

Auto Ignition: Not Applicable

Rate of Burning: Not Available

General Fire Hazards

This product is combustible above the flashpoint. "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.

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: 2 Fire: 2 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 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.

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

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits.

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B: Component Exposure Limits

Short chain glycol ether (Proprietary)

ACGIH: 20 ppm TWA
skin - potential for cutaneous absorption
OSHA: 50 ppm TWA; 240 mg/m³ TWA (Final)
Prevent or reduce skin absorption (Vacated)

Engineering Controls

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

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles or a full face shield.

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 vapor/mist/fume/dust, 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:	Mild
Physical State:	Liquid	pH:	Not determined
Vapor Pressure:	5.0 mmHg	Vapor Density:	<1
Boiling Point:	340°F (171°C)	Melting Point:	Not applicable
Solubility (H₂O):	Miscible	Specific Gravity:	0.906
Freezing Point:	Not determined	Evaporation Rate:	1.0 (Butyl acetate = 1)
Bulk Density:	7.55 lb/gal	Percent Volatile:	50%
Molecular Weight:	Mixture		

* * * 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 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 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

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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. This product contains a glycol ether which may cause CNS depression characterized by headache, drowsiness, weakness, slurred speech, stuttering, loss of coordination and judgement, tremor, blurred vision, personality changes, and albuminuria. Overexposure to glycol ethers may also result in liver or kidney damage, and hemolytic effects.

Epidemiology

No information available for the product.

Neurotoxicity

No information available for the product.

Mutagenicity

No information available for the product.

Teratogenicity

No information available for the product. The glycol ether in this product has produced nonsignificant 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)

LC50 (96 hr) bluegill: 1490 mg/L. Cond: Static, 23 degrees C.; LC50 (24 hr) goldfish: 1650-1700 mg/L.; LC50 (24 hr) water flea: 1720 mg/L.

Environmental Fate

No information available for the product.

* * * Section 13 - Disposal Considerations * * *

US EPA Waste Number & Descriptions

A: General Product Information

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: Combustible liquid, n.o.s.

Hazard Class: Combustible liquid

UN/NA #: NA1993

Packing Group: III

Required Label(s): None

* * * Section 15 - Regulatory Information * * *

US Federal Regulations

A: General Product Information

No additional information available.

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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: form R reporting required for 1.0% 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) (related to Glycol ethers)

CERCLA: (Includes mono- and di- ethers of ethylene glycol; diethylene glycol and triethylene glycol R-(OCH₂CH₂)_n-OR' where n = 1 2 or 3; R = alkyl or aryl groups; R' = R h or groups which when removed yield glycol ethers with the structure R-(OCH₂CH₂)_n-OH. Polymers are excluded from glycol category); Statutory RQ = 1 pound (.454 kg); no final RQ is being assigned to the generic or broad class (related to Glycol ethers)

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
Short chain glycol ether	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

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

B: Component Analysis - Inventory

Component.	CAS #	TSCA	DSL	EINECS
Short chain glycol ether	Proprietary	Yes	Yes	Yes
Ethoxylated alcohol	Proprietary	Yes	Yes	No

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% item 721 (824)

* * * 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: 04/27/2000

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

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This is the end of MSDS # MWI-002