

# Material Safety Data Sheet

Material Name: Mayco Stim-75

ID: MWI-023

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

**Chemical Name:** Mayco Stim-75

**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 - Hazards Identification \*\*\*

**Emergency Overview**

WARNING! Product is a clear, bright orange liquid with a chemical odor. High concentrations may cause central nervous system depression. Contact with the eye causes moderate to severe irritation. This product is irritating to the respiratory system and mild to moderately irritating to the skin. May be absorbed through the skin. May cause allergic skin reactions. Harmful if swallowed. May form peroxides during prolonged storage.

**Potential Health Effects: Eyes**

Contact with the eye causes moderate to severe irritation, with redness and pain, and transient corneal injury. Repeated or prolonged exposure may cause conjunctivitis.

**Potential Health Effects: Skin**

Direct contact causes mild to moderate irritation, with redness, roughness, and defatting of the skin. May be absorbed through the skin. May cause allergic skin reactions. Repeated or prolonged exposure may cause dermatitis.

**Potential Health Effects: Ingestion**

Ingestion may cause nausea, vomiting, diarrhea and central nervous system depression with headache, dizziness, lightheadedness, drowsiness, and convulsions.

**Potential Health Effects: Inhalation**

High concentrations may cause central nervous system depression with headache, lightheadedness, dizziness, drowsiness, unconsciousness, and pulmonary edema. Intravascular hemolysis, bone marrow depression, and delayed kidney damage may occur.

**Medical Conditions Aggravated by Exposure**

Exposure may aggravate pre-existing skin, eye, and respiratory disorders. Preexisting liver and kidney disorders.

**HMIS Ratings: Health: 2\* Fire: 1 Reactivity: 0 Pers. Prot.:** Protective gloves, chemical goggles

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

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

CAS #	Component	Percent
112-34-5	Diethylene glycol monobutyl ether	40-60
Proprietary	Proprietary Corrosion Inhibitor	10-30
Proprietary	Proprietary Surfactant	10-20
68439-46-3	Alcohols, C9-11, ethoxylated	10-15
104-76-7	2-Ethylhexanol	1-5

**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 29CFR 1910.1200 (Hazard Communication).

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## \*\*\* 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.

### First Aid: Skin

For skin contact, flush 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. Never give anything by mouth to a victim who is unconscious or is having convulsions.

### First Aid: Inhalation

Remove exposed subject to fresh air. If breathing is difficult, administer oxygen (by trained personnel only). Get immediate medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically. For ingestion, consider gastric lavage.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back. Vapor/air mixtures are explosive above flash point.

### Hazardous Combustion Products

Upon decomposition, this product emits carbon monoxide and carbon dioxide, aldehydes, hydrochloric gas and low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

### Fire Fighting Equipment/Instructions

Keep unnecessary people away; isolate hazard area and deny entry. Remove containers exposed to fire if possible; otherwise cool them from the side with water spray. Emergency equipment including self-contained breathing apparatus (SCBA) and full fire fighting turnout gear should be worn by fire fighters.

**NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0**

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

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

In the event of a spill or leak, consult the environmental supervisor immediately. Avoid heat, flames, sparks and other sources of ignition. Prevent runoff into sewers, storm drains, surface waters and soil. Isolate the spill and ventilate the area. Confine and contain small spills using inert materials (e.g. paper towels, spill control pillows, absorbent materials.)

### Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel material into approved waste container and dispose of all material in accordance with applicable regulations on waste disposal. In addition, comply with all applicable regulations on spill reporting. Decontaminate the spill area.

### Evacuation Procedures

Close off area. Keep unnecessary personnel away.

### Special Procedures

No information available.

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## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Avoid exposure to light. Do not get this material in contact with skin or eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Use this product with adequate ventilation.

### Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. May form peroxides during prolonged storage. Check peroxide content before use. Do not evaporate or distill to dryness.

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

### A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

### 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 safety glasses; chemical goggles (if splashing is possible).

#### Personal Protective Equipment: Skin

Impervious gloves should be used at all times when handling this product.

#### Personal Protective Equipment: Respiratory

Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2). A written respiratory protection program including provisions for medical certification, training, fit-testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage, must be implemented.

#### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

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

<b>Appearance:</b>	Bright clear orange.	<b>Odor:</b>	Chemical
<b>Physical State:</b>	Liquid	<b>pH:</b>	4.3
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>Boiling Point:</b>	Not available	<b>Melting Point:</b>	-6°F (-21°C) (pour point)
<b>Solubility (H<sub>2</sub>O):</b>	Soluble	<b>Specific Gravity:</b>	0.9842 @ 60°F
<b>Freezing Point:</b>	-6°F (-21°C) (pour point)	<b>Evaporation Rate:</b>	>1,000 (n-butyl acetate = 1)
<b>VOC:</b>	Not available	<b>Viscosity:</b>	60 SUS @ 104°F
<b>Molecular Weight:</b>	276	<b>Octanol/H<sub>2</sub>O Coeff.:</b>	Not available
<b>Flash Point:</b>	229°F (109.4°C)	<b>Flash Point Method:</b>	ASTM D3828
<b>Upper Flammability Limit (UFL):</b>	Not available	<b>Lower Flammability Limit (LFL):</b>	Not available
<b>Burning Rate:</b>	Not determined	<b>Auto Ignition:</b>	556°F (291°C)

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

### Chemical Stability

Stable at normal temperatures and pressure. Avoid prolonged storage or contact with air, light or storage and use above room temperature. May form explosive peroxides.

### Chemical Stability: Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

### Incompatibility

Strong acids, alkalis and oxidizing agents.

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## Hazardous Decomposition

Upon decomposition, this product emits carbon monoxide and carbon dioxide, aldehydes, hydrochloric gas and low molecular weight hydrocarbons.

## Possibility of Hazardous Reactions

Hazardous polymerization will not occur. May form explosive peroxides.

## \* \* \* Section 11 - Toxicological Information \* \* \*

### Acute Dose Effects

#### A: General Product Information

Contact with the eye causes moderate to severe irritation, with redness and pain, and transient corneal injury. Direct contact cause mild to moderate skin irritation, with redness, roughness, and defatting of the skin. May be absorbed through the skin. May cause allergic skin reactions. Repeated or prolonged exposure may cause dermatitis. Ingestion may cause nausea, vomiting, diarrhea and central nervous system depression with headache, dizziness, lightheadedness, drowsiness, and convulsions. Poisoning may cause kidney damage, blood effects, bone marrow depression, pulmonary edema, cyanosis, coma, and possibly death. High concentrations may cause central nervous system depression with headache, lightheadedness, dizziness, drowsiness, unconsciousness, and pulmonary edema. Intravascular hemolysis, bone marrow depression, and delayed kidney damage may occur.

#### B: Component Analysis - LD50/LC50

##### Diethylene glycol monobutyl ether (112-34-5)

Oral LD50 Rat: 3384 mg/kg; Dermal LD50 Rabbit: 2700 mg/kg

##### Alcohols, C9-11, ethoxylated (68439-46-3)

Oral LD50 Rat: 1378 mg/kg; Dermal LD50 Rabbit: >2 g/kg

##### 2-Ethylhexanol (104-76-7)

Oral LD50 Rat: 1516-2774 mg/kg

### Repeated Dose Effects

Repeated or prolonged exposure may cause conjunctivitis of the eye and dermatitis of the skin. Long term exposure may cause kidney and liver damage.

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

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

## \* \* \* Section 12 - Ecological Information \* \* \*

### Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Diethylene glycol monobutyl ether (112-34-5)

##### Test & Species

96 Hr LC50 *Lepomis macrochirus*

96 Hr EC50 *Scenedesmus subspicatus*

##### Results

1300 mg/L

>100 mg/L

##### Conditions

static

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## 2-Ethylhexanol (104-76-7)

### Test & Species

96 Hr LC50 Oncorhynchus mykiss  
96 Hr LC50 Oncorhynchus mykiss  
96 Hr LC50 Pimephales promelas  
96 Hr LC50 Pimephales promelas  
96 Hr LC50 Lepomis macrochirus  
72 Hr EC50 Scenedesmus subspicatus

### Results

32-37 mg/L  
>7.5 mg/L  
27-29.5 mg/L  
29.7 mg/L  
10.0-33.0 mg/L  
11.5 mg/L

### Conditions

static  
  
flow-through  
static  
static

### Environmental Fate

No information available for the product.

### Persistence & Degradability

No information available for the product.

### Bioaccumulation & Accumulation

No information available for the product.

### Mobility in Environmental Media

No information available for the product.

### Other Adverse Effects

No additional information available.

## \*\*\* 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

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

**Shipping Name:** This product is not regulated as a hazardous material for transportation.

### TDG Information

**Shipping Name:** This product is not regulated as a dangerous good for transportation.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

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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).

### Diethylene glycol monobutyl ether (112-34-5)

SARA 313: 1.0 % de minimis concentration (applies to R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-OR', where n = 1, 2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted 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)

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

## State Regulations

### A: General Product Information

No 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
Diethylene glycol monobutyl ether (related to Glycol ethers)	112-34-5	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	No
2-Ethylhexanol	104-76-7	No	Yes	No	No	Yes	No

## Canadian WHMIS Information

### A: General Product Information

D2A- Chronic Toxic Effects - Kidney, Liver damage

D2B- Eye/Skin Irritation and Skin Sensitization.

### B: Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Diethylene glycol monobutyl ether	112-34-5	1 %
2-Ethylhexanol	104-76-7	1 %

## Additional Regulatory Information

### A: General Product Information

No information available.

### B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Diethylene glycol monobutyl ether	112-34-5	Yes	DSL	EINECS
Proprietary Surfactant	Proprietary	Yes	No	No
Alcohols, C9-11, ethoxylated	68439-46-3	Yes	DSL	No
2-Ethylhexanol	104-76-7	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

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## MSDS History

New MSDS: 3/20/2009

## Key/Legend

NA = Not available or Not Applicable.

ACGIH = American Conference of Governmental Industrial Hygienists.

TLV = Threshold Limit Value.

NIOSH = National Institute of Occupational Safety and Health.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration.

NFPA = National Fire Protection Association.

HMIS = Hazardous Material Information System.

CFR = Code of Federal Regulations.

HEPA = High Efficiency Particulate Air

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.,

NJT SR = New Jersey Trade Secret Registry.

C = Ceiling Limit

STEL = Short term exposure limit

TWA = Time Weighted Average