

Material Safety Data Sheet

Material Name: Mayco Pipewash WB

Msdslid: MWI-019

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

Chemical Name: Proprietary blend

Product Use: Surface tension

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

DANGER! Product is a clear flammable liquid with a strong odor. This product is irritating to the eyes, respiratory system and skin. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. This product may cause an allergic skin reaction. May cause blindness if ingested.

Potential Health Effects: Eyes

This product may be severely irritating to the eyes.

Potential Health Effects: Skin

This product may be fatal if it is absorbed through the skin. This product may cause irritation to the skin. May cause allergic skin reactions in sensitive individuals following repeated or prolonged use. Symptoms may include itching, dryness, and scaling.

Potential Health Effects: Ingestion

This product may be harmful or fatal if swallowed. Ingestion of this product may cause nausea, vomiting and diarrhea. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness, slurred speech and blurred vision. Ingestion may cause liver and kidney damage and blood disorders. This product may cause blindness if it is swallowed.

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 by Exposure

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

HMIS Ratings: Health: 3* Fire: 3 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
Proprietary	Oxyalkylated alcohols	15-25
Proprietary	Ethoxylated alcohols	15-25
Proprietary	Short chained glycol ether	15-25
Proprietary	Ethylene oxide-Nonylphenol polymer	10-20
Proprietary	Proprietary alcohol	5-10
Proprietary	Proprietary alcohol mixture	5-10
Proprietary	Methyl alcohol	1-5
Proprietary	2-Ethylhexanol	0.5-1.5

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 29 CFR 1910.1200 (Hazard Communication).

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*** 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. For contact with large amounts, seek immediate 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.

First Aid: Inhalation

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

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

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

General Fire Hazards

See Section 9 for Flammability Properties.

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, product emits acrid smoke, carbon dioxide, carbon monoxide, and other 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. Wear appropriate protective equipment and clothing during clean-up. 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. Regulations vary. Consult local authorities before disposal.

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

Handling Procedures

Do not breathe vapors or mists of this product. Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Use non-sparking tools when opening or closing containers. Use this product with adequate ventilation. Keep this product from heat, sparks, or open flame. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode.

Storage Procedures

Store at ambient temperature and atmospheric pressure. Do not handle or store near an open flame, heat or other sources of ignition.

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

A: Component Exposure Limits

Short chained glycol ether (Proprietary)

ACGIH: 20 ppm TWA
OSHA: 25 ppm TWA; 120 mg/m³ TWA (Vacated)
Prevent or reduce skin absorption (Vacated)

Proprietary alcohol (Proprietary)

ACGIH: 200 ppm TWA
400 ppm STEL
OSHA: 400 ppm TWA; 980 mg/m³ TWA (Vacated)
500 ppm STEL; 1225 mg/m³ STEL (Vacated)

Methyl alcohol (Proprietary)

ACGIH: 200 ppm TWA
250 ppm STEL
Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA: 200 ppm TWA; 260 mg/m³ TWA (Vacated)
250 ppm STEL; 325 mg/m³ STEL (Vacated)
Prevent or reduce skin absorption (Vacated)

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. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. Use of an impervious apron is recommended.

Personal Protective Equipment: Respiratory

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

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

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

Appearance:	Clear	Odor:	Strong
Physical State:	Liquid	pH:	Not established
Vapor Pressure:	Not established	Vapor Density:	Not established
Boiling Point:	178°F (81.1°C)	Melting Point:	Not available
Solubility (H2O):	Emulsifiable, slightly soluble	Specific Gravity:	0.9
Flash Point:	51.8°F (11°C) (based on methanol)	Flash Point Method:	Not Available
Flammability Class:	NFPA IB Flammable Liquid (based on methanol)	Auto Ignition:	Not Available
LFL:	Not Applicable	UFL:	Not Applicable
Freezing Point:		Evaporation Rate:	Not established
Percent Volatile:	>80%		

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

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials.

Incompatibility

This product may react with oxidizing agents.

Hazardous Decomposition

Upon decomposition, product emits acrid smoke, carbon dioxide, carbon monoxide, and other low molecular weight hydrocarbons.

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

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.

Short chained glycol ether is harmful upon ingestion, inhalation, or skin absorption. Short chained glycol ether is a glycol ether which may result in CNS depression characterized by headache, drowsiness, weakness, slurred speech, stuttering, loss of coordination and judgment, tremor, blurred vision, personality changes, and albuminuria. Glycol ethers may also result in liver or kidney damage, and hemolytic effects.

The ethoxylated alcohol found in this product is severely irritating to the eyes. It is also moderately irritating to the skin and slightly toxic if absorbed through the skin. It also may cause allergic contact dermatitis.

Contact of the skin with Ethylene oxide-Nonylphenol polymer results in moderate irritation. Liquid contact with the eyes causes severe irritation and possible eye damage.

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B: Component Analysis - LD50/LC50

Short chained glycol ether (Proprietary)

Inhalation LC50 Rat: 2.21 mg/L/4H; Inhalation LC50 Rat:450 ppm/4H; Oral LD50 Rat:470 mg/kg; Dermal LD50 Rat:2270 mg/kg; Dermal LD50 Rabbit:220 mg/kg

Ethylene oxide-Nonylphenol polymer (Proprietary)

Oral LD50 Rat: 1310 mg/kg; Dermal LD50 Rabbit: 2 mL/kg

Proprietary alcohol (Proprietary)

Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat:4396 mg/kg; Dermal LD50 Rat:12800 mg/kg; Dermal LD50 Rabbit:12870 mg/kg

Proprietary alcohol mixture (Proprietary)

Oral LD50 Rat: 17000 mg/kg; Dermal LD50 Rabbit: >2600 mg/kg

Methyl alcohol (Proprietary)

Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat:64000 ppm/4H; Oral LD50 Rat:5628 mg/kg; Dermal LD50 Rabbit:15800 mg/kg

2-Ethylhexanol (Proprietary)

Oral LD50 Rat: 1516-2774 mg/kg

Repeated Dose Effects

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.

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Short chained glycol ether (Proprietary)

IARC: Monograph 88 [2006] (Group 3 (not classifiable))

Proprietary alcohol (Proprietary)

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

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.

Reproductive effects were seen in the fetus of laboratory animals exposed to short chained glycol ether at doses which caused toxic effects to the mother.

Teratogenicity

No information available for the product.

Neurological Effects

No information available for the product.

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

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*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Short chained glycol ether (Proprietary)

Test & Species

96 Hr LC50 Lepomis macrochirus	1490 mg/L
24 Hr EC50 water flea	1720 mg/L
24 Hr LC50 Daphnia magna	1698-1940 mg/L

Conditions

static

Proprietary alcohol (Proprietary)

Test & Species

96 Hr LC50 Pimephales promelas	9640 mg/L
96 Hr LC50 Pimephales promelas	94900 mg/L
96 Hr LC50 Pimephales promelas	61200 mg/L
96 Hr EC50 Scenedesmus subspicatus	>1000 mg/L
72 Hr EC50 Scenedesmus subspicatus	>1000 mg/L
5 min EC50 Photobacterium phosphoreum	35390 mg/L
48 Hr EC50 Daphnia magna	13299 mg/L

Conditions

flow-through

29 days old; flow-through

31 days old; flow through

Proprietary alcohol mixture (Proprietary)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	13.9 mg/L
96 Hr LC50 Pimephales promelas	15.7 mg/L
96 Hr EC50 Selenastrum capricornutum	172.2 mg/L
48 Hr EC50 Daphnia magna	37 mg/L

Conditions

static

static

Methyl alcohol (Proprietary)

Test & Species

96 Hr LC50 Pimephales promelas	28100 mg/L
96 Hr LC50 Oncorhynchus mykiss	13200 mg/L
5 min EC50 Photobacterium phosphoreum	43000 mg/L
15 min EC50 Photobacterium phosphoreum	40000 mg/L
25 min EC50 Photobacterium phosphoreum	39000 mg/L

Conditions

flow-through

2-Ethylhexanol (Proprietary)

Test & Species

96 Hr LC50 Oncorhynchus mykiss	32 mg/L
96 Hr LC50 Pimephales promelas	27-29.5 mg/L
96 Hr LC50 Pimephales promelas	29.7 mg/L
72 Hr EC50 Scenedesmus subspicatus	11.5 mg/L
48 Hr EC50 Daphnia magna	39 mg/L

Conditions

static

flow-through

static

Environmental Fate

No information available for the product.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, as supplied, this product may meet the definition of 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.

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

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Alcohols, flammable, toxic, n.o.s. (Proprietary alcohol, Methyl alcohol)

UN/NA #: UN1986 **Hazard Class:** 3(6.1) **Packing Group:** II

Required Label(s): Flammable liquids, toxic substances

Additional Info.: RQ-Methanol 5000lbs

*** 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 chained glycol ether (Proprietary)

SARA 313: 1.0 % de minimis concentration (applies to R-(OCH₂CH₂)_n-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)

Proprietary alcohol (Proprietary)

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

Methyl alcohol (Proprietary)

SARA 313: 1.0 % de minimis concentration
CERCLA: 5000 lb final RQ; 2270 kg final RQ

Acute Health: Yes **Chronic Health:** Yes **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
Short chained glycol ether	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Proprietary alcohol	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes
2-Ethylhexanol	Proprietary	No	Yes	No	No	Yes	No

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Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Short chained glycol ether	Proprietary	1 %
Proprietary alcohol	Proprietary	1 %
Methyl alcohol	Proprietary	1 %
2-Ethylhexanol	Proprietary	1 %

Additional Regulatory Information

A: General Product Information

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

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
Ethoxylated alcohols	Proprietary	Yes	DSL	No
Short chained glycol ether	Proprietary	Yes	DSL	EINECS
Ethylene oxide-Nonylphenol polymer	Proprietary	Yes	DSL	No
Proprietary alcohol	Proprietary	Yes	DSL	EINECS
Proprietary alcohol mixture	Proprietary	Yes	DSL	EINECS
Methyl alcohol	Proprietary	Yes	DSL	EINECS
2-Ethylhexanol	Proprietary	Yes	DSL	EINECS

* * * 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

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End of Sheet MWI-019