

Material Safety Data Sheet

Material Name: Mayco Help

ID: MWI-001

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

Chemical Name: Mayco Help

Product Use: Temperature extender for polymers

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	Amino alcohol	Proprietary		
Proprietary	Ethanolamine	Proprietary	3 ppm TWA 6 ppm STEL	3 ppm TWA; 6 mg/m ³ TWA (Final)

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 CORROSIVE Product is a clear liquid with a slight ammonia odor. This product may be harmful or fatal if swallowed. Causes severe eye and skin burns. Inhalation of vapors or mist may cause severe respiratory tract irritation. Excessive inhalation of this material causes headache, dizziness, and incoordination. Contact with skin can cause allergic reaction (sensitization) in some individuals. This product may be harmful if it is absorbed through the skin.

Potential Health Effects: Eyes

Corrosive. Causes severe skin burns, with redness, swelling, and blistering. May cause permanent, partial, or total loss of vision.

Potential Health Effects: Skin

Corrosive. Causes severe skin burns, with redness, swelling, and blistering. May cause permanent skin damage. May cause allergic skin reactions in sensitive individuals following repeated or prolonged use. Symptoms may include itching, dryness, and scaling. This product may be harmful if it is absorbed through the skin.

Potential Health Effects: Ingestion

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Symptoms may include nausea, vomiting, difficulty swallowing (swelling of the throat), and abdominal pain.

Potential Health Effects: Inhalation

Inhalation of mists of this product may cause severe irritation and burns to the respiratory tract. At high concentrations, may cause chemical pneumonitis and pulmonary edema. Inhalation mists or vapor may cause an allergic reaction with asthma-like symptoms.

Medical Conditions Aggravated

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

HMIS Ratings: Health: 3* Fire: 0 Reactivity: 1 Pers. Prot.: Protective gloves, chemical goggles

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 immediate medical advice.

First Aid: Skin

In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Get immediate medical attention. Wash contaminated clothing before reuse or dispose of properly.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. If the subject is conscious, give 1 or 2 glasses of water to dilute the chemical. Never give anything by mouth to a victim who is unconscious or is having convulsions.

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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

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

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

Flash Point: 250°F

Upper Flammable Limit (UFL): Not available

Auto Ignition: Not available

Rate of Burning: Not determined

General Fire Hazards

Non-flammable, non-combustible liquid. Contact with acids may liberate flammable hydrogen gas.

Hazardous Combustion Products

Decomposition of this product may emit oxides of nitrogen.

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: 3 Fire: 0 Reactivity: 1

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. 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. Dispose of spent absorbent in an approved industrial waste landfill. 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.

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

Handling Procedures

Do not inhale 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 this product with adequate ventilation. Do not mix this product with fluids which contain NITRITES/NITRATES. NITROSAMINE may be formed.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Do not store in copper, brass or carbon steel containers. Do not store with halogenated materials.

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

Exposure Guidelines

A: General Product Information

Neither the Occupational Safety and Health Administration (OSHA) nor the American Conference of Governmental Industrial Hygienists (ACGIH) have developed exposure limits for this product. Exposure limits exist for the following product ingredients.

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B: Component Exposure Limits

Ethanolamine (Proprietary)

ACGIH: 3 ppm TWA

6 ppm STEL

OSHA: 3 ppm TWA; 6 mg/m³ TWA (Final)

6 ppm STEL; 15 mg/m³ STEL (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 safety glasses with side shields. Ensure compliance with OSHA's personal protective equipment standard (29 CFR 1910.132 and 133) for eye and face protection.

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

No information available

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

Appearance:	Clear	Odor:	Slight ammonia
Physical State:	Liquid	pH:	12.5
Vapor Pressure:	<0.5 mm Hg @20°C	Vapor Density:	2.9
Boiling Point:	405°F	Melting Point:	Not available
Solubility (H₂O):	Miscible	Specific Gravity:	1.02
Particle Size:	Not available	Softening Point:	Not determined
Evaporation Rate:	Not available	Bulk Density:	8.5
Percent Volatile:	Not determined		

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

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

Corrosive to copper, brass and carbon steel. Do not mix this product with nitrites or other nitrosating agents because a carcinogenic nitrosamine may be formed.

Incompatibility

Incompatible with acids. Ingredients of this product are also incompatible with strong oxidizers, aldehydes, ketones, and acrylates. Nitrites may react with organic amines to form nitrosamines which can cause cancer.

Hazardous Decomposition

Decomposition of this product may emit oxides of nitrogen.

Hazardous Polymerization

Will not occur.

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*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

No data available for the product

Inhalation of high concentrations of ethanolamine has been reported to cause pulmonary, liver, and kidney damage in experimental animals. Ethanolamine is severely irritating to the eyes, skin, respiratory system and gastrointestinal tract, and may be absorbed through the skin in harmful amounts. It may also cause allergic contact dermatitis which is marked by itching and inflammation.

The amino alcohol in this product is an eye and skin irritant and may possibly cause burns. It may cause allergic skin reaction in susceptible individuals. It may also cause respiratory sensitization in susceptible individuals which produces an asthma-like condition.

B: Component Analysis - LD50/LC50

Amino alcohol (Proprietary)

Oral LD50 Rat : 3 gm/kg

Oral LD50 Mouse : 3550 mg/kg

Dermal LD50 Rabbit : 3560 uL/kg

Ethanolamine (Proprietary)

Oral LD50 Rat : 1720 mg/kg

Oral LD50 Mouse : 700 mg/kg

Dermal LD50 Rabbit : 1 mL/kg

Carcinogenicity

A: General Product Information

No data available for the product.

B: Component Carcinogenicity

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

Epidemiology

No data available for the product

Neurotoxicity

No data available for the product

Mutagenicity

No data available for the product

Teratogenicity

No data available for the product

Reproductive studies involving ethanolamine have produced conflicting results. Ethanolamine has been shown to be teratogenic and fetotoxic in animals in some studies but did not produce any effects in other studies.

Other Toxicological Information

No data available for the product

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Ethanolamine (Proprietary)

LC50 (96 hr) goldfish: 170.0 mg/L.; EC50 (30 min) Photobacterium phosphoreum: 13.7 mg/L Microtox test.

Environmental Fate

No data available for this product.

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*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, as supplied, this product is considered a RCRA corrosive waste, D002. 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.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Ethanolamine solutions

Hazard Class: 8

UN/NA #: UN2491

Packing Group: III

Required Label(s): Corrosive

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No information available

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

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	FL	MA	MN	NJ	PA
Amino alcohol	Proprietary	No	Yes	Yes	No	Yes	Yes
Ethanolamine	Proprietary	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

No information available.

B: Component Analysis - Inventory

Component.	CAS #	TSCA	DSL	EINECS
Amino alcohol	Proprietary	Yes	Yes	Yes
Ethanolamine	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 #	Minimum Concentration
Amino alcohol	Proprietary	0.1% item 67 (212)
Ethanolamine	Proprietary	1% item 1096 (1170)

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* * * Section 16 - Other Information * * *
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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.

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.,
NJTSR = New Jersey Trade Secret Registry.
C = Ceiling Limit
STEL = Short term exposure limit
TWA = Time Weighted Average

This is the end of MSDS # MWI-001