

Material Safety Data Sheet

This MSDS Sheet complies with the style format specified by ANSI Z400.1-1993

SECTION 1: CHEMICAL PRODUCT - COMPANY IDENTIFICATION

Mayco Wellchem, Inc.
1525 N. Post Oak
Houston, Texas 77055
(713) 688-2602

(800) 424-9300 - CHEMTREC (24 Hour Emergency Response)

PRODUCT: MAYCO STIM 239
SYNONYMS: Clay Stabilizer
CHEMICAL FAMILY: Amine mixture
MSDS CREATION DATE: Oct. 16, 2000
MSDS REVISION DATE: May 24, 2002

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

The composition information and/or the composition of one of the components of this product is proprietary. In the event of a medical emergency, spill or fire, compositional information will be revealed to responding emergency personnel.

COMPONENTS: Amine mixture, Water
CAS NUMBER: Amine mixture (proprietary)
RTECS NUMBER: n/a
PERCENTAGE: Amines (50%), Water (50%)
PROBABLE CONTAMINANT: None known.

SECTION 3: HAZARDS IDENTIFICATION

NFPA RATINGS: (SCALE 0-4): HEALTH=3, FIRE=1, REACTIVITY=0
SARA Title III Hazard Categories: 1,2
Subject to reporting requirements of SARA Title III section 313 of 1986 and 40 CFR part 372.

EMERGENCY OVERVIEW: Amber liquid. The toxicological properties have not been fully investigated. Avoid contact with eyes, skin and clothing. May cause skin and eye irritation and/or possible burns. Inhalation of vapors may cause irritation of the respiratory tract. Work in well ventilated area. Wash thoroughly after handling.

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POTENTIAL HEALTH EFFECTS:

INHALATION:

Short Term Effects: Can cause severe irritation. Additional effects may include coughing and shortness of breath.

Long Term Effects: No information available.

SKIN CONTACT:

Short Term Effects: Can cause severe irritation. Corrosive to skin.

Long Term Effects: Same effects as short term exposure.

EYE CONTACT:

Short Term Effects: May cause irritation and/or burns.

Long Term Effects: Same effects as short term exposure.

INGESTION:

Short Term Effects: May cause gastrointestinal irritation. May be harmful.

Long Term Effects: No information available.

CARCINOGEN STATUS:

OSHA: No **NTP:** ND **IARC:** ND **OSHA Regulated:** No

SECTION 4: FIRST AID MEASURES

INHALATION: Remove from exposure area to fresh air immediately. If breathing is difficult, give oxygen. Oxygen should be given by trained medical personnel only. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of product remains (at least 15-20 minutes). Get medical attention if irritation persists.

EYE CONTACT: Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of substance remains (approximately 15-20 minutes). Get medical attention immediately.

INGESTION: Not an expected pathway in the industrial environment. Treat symptomatically and supportively. Do not induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

NOTE TO PHYSICIAN: **Antidote:** No specific antidote. Treat symptomatically and supportively.

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SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: This product is not defined as flammable or combustible. Under certain conditions, when exposed to heat or flame, it may support combustion.

EXTINGUISHING MEDIA: In case of fire, utilize dry chemical, carbon dioxide, water spray or foam. For larger fires, use water spray, fog or foam. Use an extinguishing agent suitable for type of surrounding fire and/or chemicals.

FIREFIGHTING: Move product containers from fire area if you can without risk. Do not use water directly on material; do not scatter the material. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of tanks. Avoid breathing toxic vapors, keep upwind. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Avoid breathing vapors; keep upwind. Dike area to prevent runoff and contamination of water sources.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may release toxic and hazardous oxides of carbon and nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Keep unnecessary people away. Isolate hazard area and deny entry to avoid material dispersal. Stop leak if you can do it without risk. Do not touch spilled material. For small spills, material should be absorbed into an inert material and placed into containers for later disposal. For larger spills, dike far ahead of spill for later disposal. Wash thoroughly after handling.

SECTION 7: HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this product. Store in a tightly closed container. Store away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits established by OSHA/ACGIH/NIOSH.

VENTILATION: Provide local exhaust ventilation system.

EYE PROTECTION: Wear safety glasses with side shields or safety goggles/shield to prevent contact with this product.

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EMERGENCY WASH FACILITIES: Where there is any possibility that an employee's eyes and/or skin may be exposed to this product, an eye wash fountain and safety shower should be available.

CLOTHING: Wear appropriate protective clothing and equipment to prevent skin contact with this product.

GLOVES: Wear appropriate protective gloves to prevent contact with this product.

RESPIRATOR: Under established uses and normal working conditions, respirator usage is not required. Contamination levels found in the working environment specific to the job assignment may dictate respirator requirements. Do not exceed the working limits of the respirator. Respirators must also be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS

CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DESCRIPTION: Brown liquid with amine odor

pH: 12

FLASH POINT: >212°F (100°C)

MELTING POINT: Not applicable

BOILING POINT: 212°F

VAPOR PRESSURE: <0.1 mmHg @ 68°F (20°C)

VAPOR DENSITY: Not available

WATER SOLUBILITY: Soluble

SPECIFIC GRAVITY: 1.07

EVAPORATION RATE (BUTYL ACETATE=1): <1

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressures

CONDITIONS TO AVOID: None known

INCOMPATIBILITIES: Avoid contact with nitrous acid, organic or inorganic nitrites or atmospheres with high nitrous oxide concentrations. N-nitrosamines may be formed.

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Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION: Thermal decomposition products may include toxic and hazardous oxides of carbon and nitrogen.

POLYMERIZATION: Has not been reported to occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICITY DATA: Data not available

CARCINOGEN STATUS: Data not available

LOCAL EFFECTS: Data not available

ACUTE TOXICITY LEVEL: Data not available

TARGET EFFECTS: Data not available

INHALATION:

Acute Exposure: Data not available

Chronic Exposure: Data not available

SKIN CONTACT:

Acute Exposure: Data not available

Chronic Exposure: Data not available

EYE CONTACT:

Acute Exposure: Data not available

Chronic Exposure: Data not available

INGESTION:

Acute Exposure: Data not available

Chronic Exposure: Data not available

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4): No data available

ACUTE AQUATIC TOXICITY: No data available

DEGRADABILITY: No data available

LOG BIOCONCENTRATION FACTOR (BCF): No data available

LOG OCTANOL/WATER PARTITION COEFFICIENT: No data available

SECTION 13: DISPOSAL INFORMATION

Observe all federal, state and local regulations when disposing of this product.

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SECTION 14: TRANSPORT INFORMATION

DOT SHIPPING NAME: Not Regulated
DOT HAZARD CLASS or DIVISION: Not Regulated
DOT IDENTIFICATION NUMBER:
DOT PACKING GROUP: None
DOT LABEL CODES: None
DOT PACKAGING (refer to): NA
DOT QUANTITY LIMITATIONS:
Passenger Aircraft/Rail: NA
Cargo Aircraft Only: NA

SECTION 15: REGULATORY INFORMATION**United States:**

(alkoxylated alkyl amines)

	TSCA STATUS:	Yes
40 CFR 302.4	CERCLA SECTION 103:	No
40 CFR 355.30	SARA SECTION 302:	Yes
40 CFR 355.40	SARA SECTION 304:	No
40 CFR 372.65	SARA SECTION 313:	Yes
40 CFR 370.21	SARA HAZARD CATEGORIES, SARA SECTIONS 311/312	
	ACUTE HAZARD:	No
	CHRONIC HAZARD:	No
	FIRE HAZARD:	No
	REACTIVITY HAZARD:	No
	SUDDEN RELEASE HAZARD:	No
29 CFR 1910.119	OSHA Process Safety	No
	STATE REGULATIONS:	
	CALIFORNIA PROPOSITION 65:	Yes
	PENN. HAZ. SUB. LIST	Yes

Foreign:

(alkyl amines)

CANADIAN DOMESTIC SUBSTANCE LIST (DSL)	Yes
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EUROPEAN REGULATIONS (EINECS)	Yes
AUSTRALIAN INVENTORY of CHEMICAL SUBSTANCES (AICS)	Yes
KOREAN EXISTING CHEMICALS LIST (ECL)	Yes

SECTION 16: OTHER INFORMATION

Personnel handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific material designated and may not be valid for such material used in combination with other materials or processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own use and purpose. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Mayco reserves the right to refuse shipment of this material to any person or organization who, in the judgment of Mayco, does not demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations.

Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.