

Medical Chemical Corp.
19430 Van Ness Ave.
Torrance, CA 90501

Customer Service: Phone (310)787-6800, (800)424-9394
FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

Section I - Product Identification

An aqueous solution of ammonium sulfate, potassium citrate, magnesium sulfate and N-ethylmaleimide in water.

Section II - Hazards Identification

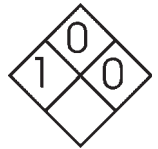
Overview: May be harmful if swallowed. May be irritating to skin and eyes.

Safety Ratings

Health: Slight Flammability: None Reactivity: None Contact: Slight
Recommended safety equipment: safety goggles, lab coat and proper gloves
Storage: General storage

NFPA Ratings

Health = 0 Flammability = 0 Reactivity = 0



Potential Health Effects

The toxicology of this compound has not been completely examined. It is presumed that the toxicity of this item is similar to other inorganic salts.

Inhalation: May be irritating

Ingestion: While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

Skin contact: Not normally a problem

Eye contact: May be irritating

Chronic Exposure: Unknown

Aggravation of preexisting conditions: Unknown

Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	% w/v
Ammonium sulfate	7783-20-2	-----	-----	-----	44%
Potassium citrate	6100-05-6	-----	-----	-----	0.6%
Magnesium sulfate	10034-99-8	-----	-----	-----	0.1%
N-ethylmaleimide	C6H7NO2	-----	-----	-----	0.05%

Section IV - First Aid Measures

Inhalation: Unlikely to be a problem. Remove from source of exposure and get medical attention for any breathing difficulty.

Ingestion: If the victim is conscious, induce vomiting. Never give anything by mouth to an unconscious person.

Skin Contact: Wash affected area with soap and water. Get medical advice if irritation develops.

Eye Contact: Rinse thoroughly with running water. Get medical advice if irritation develops.

Section V - Fire Fighting Measures

Flash point: Not applicable.

Flammable Limits: Not applicable.

Fire: Not normally a fire Hazard,

Explosion: Not Normally an explosion hazards.

Fire Extinguishing Media: Any means suitable for surrounding fire.

Special information: Pyrolysis will release corrosive oxides.

Section VI - Accidental Release Measures

Absorb with a suitable absorbent (such as paper towels) and store in a suitable container for disposal.

Section VII - Handling and Storage

Store in a closed container, protected from freezing.

Section VIII - Exposure Control/Personal Protection

Airborne Exposure Limits: See section III.

Ventilation System: Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

Personal Respirator: Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

Skin protection: Protective gloves are not required but recommended as part of good laboratory practice.

Eye Protection: Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

Section IX - Physical and Chemical Properties

Boiling Point: 102 °C

Vapor pressure (mm Hg): 18 @ 20 °C

Vapor Density (air = 1): 0.6

Appearance and Odor: A clear, colorless liquid.

Density: 1.0 g/ml

Evaporation Rate (water = 1): 1

Solubility: Infinitely miscible with water

Section X - Stability and Reactivity

Stability: Freezes at low temperature.

Hazardous Decomposition Products: Nothing unusual.

Hazardous polymerization: Will not occur.

Incompatibilities: Nothing unusual.

Conditions to avoid: Excessive cold/heat and light.

Section XI - Toxicological Information

None relating to normal exposure.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
ammonium sulfate	No	No	None
magnesium sulfate	No	No	None
N-ethylmaleimide	No	No	None
potassium citrate	No	No	None

Section XII - Ecological Information

Environmental Fate: Biodegradable

Environmental Toxicity: None

Section XIII - Disposal

Waste disposal is usually not restricted but local ordinances vary. Insure compliance with all government regulations.

Section XIV - Transportation information

Not Regulated

Section XV - Regulatory Information**Chemical Inventory Status**

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Ammonium sulfate	Yes	Yes
Magnesium sulfate	Yes	Yes
N-ethylmaleimide	Yes	Yes
Potassium citrate	Yes	Yes

Federal, State and International Regulations

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Ammonium sulfate	No	No	No	No	No	No	No
Magnesium sulfate	No	No	No	No	No	No	No
N-ethylmaleimide	No	No	No	No	No	No	No
Potassium citrate	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: No, Chronic: No, Fire: No

Section XVI - Other Information

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Jan. 3, 2018