



The Hide Group, Inc.

2509 South Frontage Road
Sardis, Mississippi 38666

MEP 42 Plant Regulator

INHALATION: The acute inhalation toxicity is considered to be low. The inhalation LC₅₀ for rats is greater than 20 mg/l for 4 hours. Inhalation of large amounts of mists may result in respiratory irritation and possible narcosis.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:

CANCER INFORMATION: Chronic feeding studies with mepiquat chloride in mice and rats indicated no treatment related effects or any evidence of carcinogenicity in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Mepiquat chloride did not cause embryotoxicity, fetotoxicity, or any other teratogenic effects in animal studies.

REPRODUCTIVE EFFECTS: Mepiquat chloride did not interfere with fertility in animal reproduction studies. The no effect level in a two-generation rat reproduction study was 147 mg/kg/day.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Based on a number of *in vivo* and *in vitro* studies, it was concluded that mepiquat chloride is not a mutagen.

Section 4: First Aid Measures

EYES: Hold eyelids open and flush with a steady gentle stream of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything by mouth to an unconscious person. Have product container or label with you when calling a poison control center or doctor or going for treatment.

INHALATION: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention if symptoms persist.

Section 5: Fire Fighting Measures

FLASH POINT (method): Not flammable

FLAMMABLE LIMITS: Not applicable



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- FIRE AND EXPLOSION HAZARD:** Can releasing irritating and toxic gases in a fire resulting from thermal decomposition.
- EXTINGUISHING MEDIA:** Use dry foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.
- FIRE FIGHTING INSTRUCTIONS:** Evacuate the area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire-extinguishing systems are preferred to prevent environmental damage with excessive water run off.
- FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full face-piece. Full fire fighting turnout gear (Bunker gear).
- HAZARDOUS COMBUSTION PRODUCTS:** Hydrogen chloride and nitrous oxide.

Section 6: Accidental Release Measures

IN CASE OF SPILLS OR LEAKS: Wear protective clothing as described in Section VII (Personal Protection and Precautions) of this MSDS. Absorb liquid with material such as clay, sand, sawdust, or dirt. Sweep up and place in a suitable container for disposal and label the contents. Follow this by washing with a strong soap and water solution. Absorb any excess liquid as indicated above, and add to the disposal container. Keep product, contaminated materials and wash water out of streams and sewers. Wash exposed body areas thoroughly after handling.

DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site, if approved waste handling facilities are available, or at an approved waste handling facility.

PHYSICAL ENVIRONMENTAL PROPERTIES: Although mepiquat chloride is stable to hydrolysis and photolysis, it is rapidly decomposed in the environment by microbial breakdown into CO₂ (the half-life in soil ranged from 3 to 21 days). Mepiquat chloride is non-mobile in soils and it does not bioaccumulate.

ENVIRONMENTAL TOXICOLOGY: Mepiquat chloride is not acutely toxic to fish or wildlife.



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Section 7: Handling and Storage

KEEP OUT OF REACH OF CHILDREN

HANDLING: See product label. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Use only in a well ventilated area.

STORAGE: Keep in original containers, tightly closed, and out of reach of children and animals. Keep away from food, feedstuff and water supplies. Containers should be stored in a cool, dry, well-ventilated area and away from heat. Do not allow product to freeze.

Section 8: Exposure Controls/Personal Protection

EXPOSURE LIMITS: (8 hour TLV): None established.

VENTILATION: Provide general and/or local exhaust ventilation. Ventilate all transport vehicles prior to unloading.

RESPIRATORY PROTECTION: Supplied air respirators should be worn if large quantities of mist are generated or prolonged exposure is possible.

EYE/FACE PROTECTION: Chemical goggles when respirator does not provide eye protection.

SKIN PROTECTION: Wear coveralls or long-sleeved shirt and long pants, chemical protective gloves (nitrile, neoprene, or Viton[®] brand), and shoes plus socks. Launder all work clothing before reuse. Keep work clothing separated from household laundry.

Section 9: Physical and Chemical Properties

Color:	Blue
Physical State:	Liquid
Odor:	Odorless
Density:	8.354 lbs/gal
Solubility:	Completely soluble
Viscosity:	1.084 (20°C)
pH:	6.7 in an aqueous solution
Stability:	Stable



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Section 10: Stability and Reactivity

CHEMICAL STABILITY:	Stable, however may decompose if heated.
CONDITIONS TO AVOID:	Avoid excessive heat and fire.
INCOMPATIBILITY WITH OTHER MATERIALS:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	Hydrogen chloride and nitrous oxide.
HAZARDOUS POLYMERIZATION:	Product will not undergo polymerization.

Section 11: Toxicological Information

ACUTE TOXICITY:	
ORAL (rat):	The oral LD ₅₀ is 6,950 mg/kg .
DERMAL(rat):	The dermal LD ₅₀ is > 5,000mg/kg.
INHALATION (rat):	The LC ₅₀ (4h) is > 20 mg/l air.
EYE IRRITATION (rabbit):	Causes slight eye irritation.
SKIN IRRITATION (rabbit):	Causes slight skin irritation
SKIN SENSITIZATION (guinea pig):	non-sensitizer.

Section 12: Ecological Information

ENVIRONMENTAL SUMMARY:

High concentrations of this product may be toxic to fish and aquatic invertebrates. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

AQUATIC TOXICITY:	LC ₅₀ (96h) for rainbow trout-4,300 mg/l LC ₅₀ (48h) for Daphnia-68.5 mg/l
AVIAN TOXICITY:	LD ₅₀ Bobwhite quail- >2,000mg/kg



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Section 13: Disposal Considerations

WASTE: Pesticide wastes are toxic. Dispose of in accordance with applicable Federal, state, and local laws and regulations.

CONTAINER: Refer to product label.

Section 14: Transport Information

PROPER SHIPPING NAME: Not regulated by DOT.

HAZARD CLASS OR DIVISION: None

IDENTIFICATION NUMBER: None

PACKING GROUP: Not applicable

ADDITIONAL INFORMATION: None

Section 15: Regulatory Information

SARA 313 INFORMATION: This product does not contain any substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is not considered a health hazard, 40 CFR Part 370.41

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD COMMUNICATION STANDARD: This product is considered non-hazardous under the OSHA Hazard Communication Standard, 29 CFR Part 1910.1200.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Category	Rating
Health	1
Flammability	0
Reactivity	0



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COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): Releases of this material to air, land, or water are reportable to the National Response Center under CERCLA or to the state and local emergency planning committees under SARA Title III Section 304 and 40 CFR Part 302

Section 16: Other Information

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR Part 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See MSDS for health and safety information.

Original Date: June 30, 2003

Revised: December 14, 2006