

**MADUTHREL 480 – MSDS****MSDS****MADUTHREL 480**

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Product Identification**Product Name:** Maduthrel 480**Chemical Family:** Tetracyclic Acid**Chemical Name:** Etephon**Formula:** C₂ H₆ ClO₃P**General Use:** Plant Growth Regulator**Molecular Weight:** 144.49**Formulation:** Soluble Liquid**Composition / Information on Ingredients**

Ingredient (CAS #)	16672-87-0	Percentage	Limites de Exposure
Etephon		39.90%	
Water		60.10%	

Physical Data**Boiling Point:** >110 deg C.**Vapor Pressure (@ 20° C):** Not determined**Melting Point:** Not Determined**Evaporation Point:** 170° C**Freezing Point:** -12° C**Solubility in Water:** Very Soluble**Specific Gravity (25° C):** 1.204**Vapor Pressure (@ 20° C):** 0.0000605 mm Hg**Appearance and Odor:** aqueous liquid, slightly yellowish, with a characteristic slight odor**pH:** 0.8**Fire & Explosion Data****Flash Point:** Incombustible**Flammable Limits (Vol. % Air):** (ounces per square foot): Inferior: None; Superior: :None**Autoignition Temperature in C (F):** None**Extinguishing Media:** Use agents appropriate for surrounding fire. Use water spray, foam, dry chemicals, carbon dioxide, or other extinguishing media as appropriate for surrounding fire.**Special Firefighting Procedures:** Wear full protective clothing. Wear self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** Under fire conditions, thermal decomposition produces acid fumes. It could release Hydrogen chloride.**Reactivity Hazard Data****Stability:** This material is stable**Material to avoid:** Alkaline material. It is corrosive to metal as Iron, Aluminum and Copper.**Decomposition Products:** The decomposition products can be dangerous. These could include Hydrogen Chloride. The reaction could cause Ethylene gas evolution and release.**Hazardous Polymerization:** It will not occur.**Health Hazard Data**

This product is a strong acid. The risks associated with its use are mainly due to its serious irritant properties to the mucous surfaces.

Inhalation: Dangerous if inhaled. (See Toxicological data). The sprays can be irritating to the respiratory tract. The signs and symptoms could include choke ness, cough, and throat burning.**Eye Contact:** Corrosive, it could cause irreversible visible damage to the eyes, such as opaque cornea.**Skin Contact:** Could be fatal if absorbed through the skin**Ingestion:** Dangerous if ingested (See Toxicological data). It could cause severe irritation to the mouth, throat, esophagus, and stomach, with severe abdominal and chest pain.**Chronic Effects of Overexposure:** It could cause inflammation of the respiratory tract, dermatitis, or ulceration.



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Other Toxic Effects:

LD50: Based on the LD50 of its components, the oral LD50 (rats): 3,740 mg/kg
LOW ORAL TOXICITY, ACUTE ORAL BOBWHITE QUAIL: LD50 =1,000 MG/KG;
RAINBOW TROUT ACUTE 96HOURS LC50>350MG/L; MALLARD DUCK LC50>10000MG/KG

Routes of Entry: Inhalation, ingestion or skin contact.

Carcinogenicity: The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

Emergency and First Aid Procedures

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give large quantities of water or milk. Seek medical attention.

Skin Contact : Wash with soap and water. Remove contaminated clothing. Wash clothing before reuse.

Eye Contact : Immediately flush eyes with water for at least 15 minutes, holding eyelids apart to irrigate thoroughly. Washing eyes within several seconds is essential to achieve maximum effectiveness. Consult physician if irritation persists.

Inhalation: Remove to fresh air. Consult physician. If not breathing, give artificial respiration.

Note to Physician: Test symptomatically and supportively

Special Protection Information

Protective clothing: Protective gloves (butyl, natural rubber, neoprene, PVC, or equivalent) should be worn to prevent skin contact, which could cause skin irritation or allergic reaction.

Eye Protection: Safety glasses with side shields should be worn at all times.

Ventilation: Mechanical. Material should be handled or transferred in an approved fume hood or with adequate ventilation

Respiratory Protection : Use NIOSH/MSHA approved dust respirator if ventilation is not sufficient..

Other: Eye wash, neoprene protective type apron.

Spill or Leak Procedures

Steps to be Taken in Case Material is released or Spilled: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

Waste Disposal Methods: Dispose of in accordance with all applicable federal, state and local regulations.

Special Precautions

Work/Hygienic Practices: Wash thoroughly after handling. Do not take internally. Eyewash and safety equipment should be readily available.

Precautions to be Taken in Case Material is Handling and Storing: Store in original, sealed container in cool, ventilated area. Protect from freezing or overheating. Avoid open flames and sparks. Keep in Secured area, away from children and unauthorized people. Avoid dusting. Do not get in eyes. Do not breathe dust. Avoid prolonged, or repeated, skin contact.

Additional Regulatory Information

DOT Hazard Class: HAZARD SYMBOLS: C corrosive UN No.: 3265

Hazardous Substance : Acute Health Hazard

EPA SARA Title III Data: This product does not contain toxic chemicals listed on SARA Section 313 Community Right to Know or Toxic release Inventory. All components of this product are listed on the TSCA inventory.

Other Information

Prepared by:

Revision Notes :

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