

Material Safety Data Sheet



CORPORATE HEADQUARTERS
9130 South Dadeland Boulevard
Suite 1607, Two Datan Center
Miami, Fl 33156-78513.USA

Maduthrel 240®

Date of Preparation: 2/1/01

MSDS No. 0036

Date of review: January 09, 2006

CHEMTEL Emergency Phone number: 800-255-3924. - For International shipments: 813-248-0585

Maduthrel® 240

Plant Growth regulator

MSDS

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I. Product Identification

Product Name : Maduthrel® 240

Chemical Name: (2-chloroethyl)

Chemical Family: Plant growth regulator

General Use : Fertilizer

Chemical Family: Ethylene generator

Poisons Schedule Number: 6

Use: For thinning, loosening or ripening in various crops.

II. Composition / Information on Ingredients

Ingredient	(CAS #)	Percentage	Exposure Limits
Etephon	16672-87-0	240 gr/Lit	
Other ingredients, including water (non-hazardous)		760 gr/Lit	

III. Physical Data

Appearance: A clear colourless to pale yellow liquid with a mild characteristic odour

Boiling Point: Decomposes above 75_C

Vapour Pressure: <0.01 mPa at 20_C

Specific Gravity: 1.207 at 20_C

Flashpoint: Non flammable

Flammability Limits: Not determined

Solubility in Water: 100%

Other Properties: Formulation Soluble liquid

pH: Approximately 1.0

IV. Fire & Explosion Data

Extinguishing Media: Water spray, carbon dioxide, foam, dry agent

Special Fire Fighting Procedures: Firefighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715, 1716). If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Contain fire-fighting water by bonding area with sand or earth to prevent it entering any bodies of water.

V. Reactivity Hazard Data

Reactivity Hazards: Stable under normal conditions of use. Avoid temperatures above 75_C. Incompatible with strong oxidizing agents and alkaline materials. Corrosive to metals such as iron, aluminum and copper. Reaction with bases causes evolution of ethylene gas. Thermal decomposition products may be hazardous - these may include oxides of carbon, oxides of phosphorus, hydrogen chloride.

Other Safe Handling: Neutralizing chemicals: Not appropriate.

VI. Health Hazard Data

Acute:

Swallowed: Product is harmful if swallowed. May cause burns to mouth, throat, esophagus and stomach.

Eye: Attacks the eyes. Contact can cause corneal burns.

Skin: Contact with skin may result in irritation. Corrosive to skin – may cause skin burns. Studies indicate this product is not a sensitizing agent.

Inhaled: Harmful if inhaled. May cause respiratory tract irritation.

Other Health Effects: Etephon is a weak to moderate cholinesterase inhibitor. Repeated minor exposure may have a cumulative poisoning effect.

Chronic: In animal studies ethephon was shown not to be carcinogenic or mutagenic, and did not cause reproductive or teratogenic effects.

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VII. Emergency and First Aid Procedures

First Aid: If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Swallowed: If swallowed, DO NOT induce vomiting. Give a glass of water. Give one atropine tablet every 5 minutes until dryness of the mouth occurs. Get to a doctor or hospital quickly.

Eye: If in eyes, hold eyes open and flood with water for at least 15 minutes, and obtain immediate medical assistance.

Skin: Remove contaminated clothing. Wash affected areas with plenty of soap and water. Give one atropine tablet every 5 minutes until dryness of the mouth occurs. Get to a doctor or hospital quickly.

Inhaled: Remove victim to fresh air. Give one atropine tablet every 5 minutes until dryness of the mouth occurs. Get to a doctor or hospital quickly.

First Aid Facilities: Ensure washing facilities are available, including eyewash facilities. Maintain a supply of atropine tablets 0.6 mg.

Advice to Doctor: This material possesses the characteristics of a strong acid and may cause mucosal damage by swallowing or inhaling. Victims of severe over-exposure by inhalation should be kept under medical observation for up to 72 hours in case of delayed onset of pulmonary edema. In a patient with severe over-exposure by ingestion, careful gastric lavage is required due to the possibility of stomach or esophageal perforation. This material is an acid, but the use of alkaline substances to neutralize it is contraindicated. This product can produce mild cholinergic symptoms due to its cholinesterase inhibiting effect. Treat symptoms.

Other First Aid: DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.

IX. Spillage or Leak Procedures

Spillage or Leak Procedures: Dealing with spills and disposals may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing is worn: Cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves, face shield or goggles

CONTAIN SPILL and absorb with absorbent material such as earth, sand or clay and store in properly labeled, sealed drums for safe disposal in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes. Do not burn empty containers or product. Deal with all spillages immediately. Keep people away and upwind. If contamination of drains, streams, watercourses, etc. is unavoidable, warn local water authority.

Waste Disposal Methods: Triple or preferably pressure rinse containers before disposal. Add rinsing to the spray tank. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers or product should not be burnt.

X. Storage and Transport

Storage and Transport:

Corrosivity Hazards: Corrosive to the skin and eyes. Highly corrosive to metals.

Handling & Storage Precautions: Keep out of reach of children. Store in the closed, original container in a cool, well-ventilated area, out of direct sunlight, away from food, feedstuffs, seed and fertilizers. Store below 75°C. DO NOT store in carbon steel. Wear protective equipment if handling opened or leaking containers. Ensure that no metal is in contact with product during short-term or long-term storage, e.g. taps on flexible couplings.

Transport: The product is classified as a Dangerous Good : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains ethephon), Class 8, PG III, UN 3265. Must be stored and transported according to local State/Territory and Federal regulations.

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XI. Shipping Information

UN Number: 3265

Dangerous Goods Class and Subsidiary Risk: 8 No subsidiary risk

Hazchem Code: 2X

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains Ethephon)

Packing Group: III

EPG: 36 – Dangerous Goods – Initial Emergency Response Guide

XII. Other Information

National Fire Protection Association Rating:

(Rating level: 4- Extreme, 3- High, 2- Moderate, 1-Slightly, 0-Minimum)

Health: 3

Fire: 0

Reactivity: 1

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of pressure: N

Fire: N

Reactive: N

Prepared by:

Revision Notes :

Disclaimer: Reasonable care has been taken in preparation of this information. The information contained herein is based on the data available to us and is believed to be correct as of the date prepared; however, ExcelAg Corp., makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.