



Material Safety Data Sheet (MSDS) Acilal 8 PH(EC)

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Malathion 100% w/v
Trade Name: Acilal 8 PH
Chemical Name: diethyl [(dimethoxythiophosphorylthio) succinate; S-1,2-bis(ethoxy = carbonyl) ethyl O,O- dimethylphosphodithioate
Chemical Formula: C₁₀H₁₉O₆PS₂
Molecular Weight: 330.3

PRODUCT COMPOSITION:

Active Ingredient:	% w/w	CAS #
Malathion	80%	[121-75-5]
Inert ingredient:		
Emulsifier	up to 100%	--

HAZARDOUS IDENTIFICATION:

KEEP OUT OF REACH OF CHILDREN – WARNING - POISON –
Harmful if swallowed. Avoid contact with skin. Avoid breathing of spray mist. Avoid contamination of feed and foodstuff. Keep out of reach of children. For use in mushroom houses and empty grain storage facilities: Use only with adequate ventilation. After using this product ventilate thoroughly before occupying enclosed spaces. Do not allow contact with treated surfaces until sprays have dried.





FIRST-AID MEASURES:

If swallowed: Call a poison control center or doctor immediately for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with 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.

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

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to Atropine.

FIRE-FIGHTING MEASURES: -

Flash point: 48 °C

Flammable limit: Not established

Extinguishing media: Foam, dry chemical, carbon dioxide, and water spray (fog).

Hazardous combustion product: This product will emit toxic fumes when burned, including dimethyl sulfide, sulfur dioxide, phosphorous pentoxide, and oxides of carbon.

Special fire fighting procedure: Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.

Unusual fire and explosion hazards: Vapours and fumes from fire may be hazardous. If water is used to fight fire or cool containers, dike to prevent runoff and contamination of municipal sewers and waterways.

ACCIDENTAL RELEASE:

Steps to be taken if material is released or spilled:

For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Check local or provincial regulations for proper disposal. Flush the area with water to remove any residue.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.



PERSONAL PROTECTION/SAFTETY:

Engineering control: Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

PERSONAL PROTECTIVE EQUIPMENT

Eyes and face: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

Respiratory: For splash, mist or spray exposure wear, as a minimum, a properly fitted halfface or full-face air-purifying respirator.

Protective clothing: Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit. Leather items - such as shoes, belts and watchbands – that become contaminated should be removed and destroyed.

Laundry all work clothing before reuse.

Work hygienic practices: Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

Gloves: Wear chemical protective gloves made of materials such as butyl rubber, nitrile or Viton® brand.

Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

HANDLING AND STORAGE:

HANDLING: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in a cool, dry place. Keep pesticide in original container. Not for use or storage in or around the home. **KEEP AWAY FROM CHILDREN.** Do not store diluted spray. Do not store near heat or open flame. Do not contaminate water, food, or feed by storage or disposal.

Personal Protective Equipment: Applicators and other handlers must wear: long sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber or Viton®, shoes plus socks, and protective eyewear. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.





STABILITY AND REACTIVITY:

STABILITY: Stable

CONDITIONS TO AVOID: The active ingredient will decompose rapidly at temperatures above 100 °C.

INCOMPATIBILITY: Strong alkalis, amines, and strong oxidizing compounds. The active ingredient can corrode iron, steel, tin plate, lead and copper.

HAZARDOUS DECOMPOSITION PRODUCTS: Dimethyl sulfide, sulfur dioxide, oxides of carbon, and phosphorous pentoxide from combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

TOXICOLOGICAL INFORMATION:

Acute Oral LD50 (rat): 5500 mg/kg (Technical)

Acute Dermal LD50 (rabbit) : > 2000 mg/kg (Technical)

Eye Irritation (rabbit): Slight irritation (Technical)

Skin Irritation (rabbit): Slight irritation (Technical)

Inhalation LC50 (male rat): 1.51 mg/L (4 hr, nose only) (Technical).

Skin Sensitization (Guinea Pig): Not a sensitizer (Technical).

ECOLOGICAL INFORMATION: -

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment wash waters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

DISPOSAL CONSIDERATIONS:

Do not reuse containers for any purpose. This product is acutely hazardous. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressurerinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.