



## MATERIAL SAFETY DATA SHEET ACINATE 24 L

### IDENTIFICATION OF THE SUPPLIER:

AGRO CHEMICALS INDUSTRIES LTD  
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### PRODUCT IDENTIFICATION:

**Common Name:** Methomyl 24% w/w  
**Trade Name:** Acinate 24 L  
**Type of formulation :** Liquid (L)  
**Chemical Name:**  
methyl N-[[[(methylamino)carbonyl]oxy]ethanimidothioate  
**Chemical Formula:** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight:** 162.2

### PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>% w/w</i>	<i>CAS #</i>
Methomyl	24%	[16752-77-5]
<i>Inert ingredient:</i>		
Solvent	Up to 100%	--

### HAZARDS IDENTIFICATION:

**Route (s) of entry:** Inhalation, Skin, Eyes and Ingestion .  
**Potential health effects (Acute and chronic):**  
**Oral LD<sub>50</sub> (rat):** male 2455 mg/kg female: 3236 mg/kg.  
**Dermal LD<sub>50</sub> (rabbit) :** male and female: >> 2000 mg/kg.  
**Inhalation (rat):** >> 1.25 mg/l (maximum attainable concentration) .



**Primary eye:** irritation (rabbit): EPA category IV (minimal effect, clearing less than 24 hour)

**Primary dermal irritation (rabbit):** material is not primary dermal irritant.

**Dermal sensitization (guinea pig):** material is not a dermal sensitizer.

**Signs and symptoms of exposure:** sweating, salivation, nausea , stomach pains, vomiting diarrhea, headach, constricted pupil, tightness in chest, ataxia, cyanosis.

### FIRST-AID MEASURES:

#### Emergency and first aid procedures:

**If swallowed:** Don't induce vomiting, Drink two glasses of water, Never induce vomiting or give any-thing by mouth to an unconscious person.

**If inhaled:** Remove patient to fresh air, if not breathing give mouth to mouth resuscitation and call a physician immediately.

**If in eyes:** Flush with water for at least 15 minutes. Call a physician immediately .

**If on skin:** Remove contaminated clothing and wash skin with soap and water.

**If irritation:** persists, call a physician. Launder contaminated clothing before re-use.

**Not to Physician:** methomyl is a cholinesterase inhibitor. Atropine is antidotal.

### FIRE-FIGHTING MEASURES: -

**Flash point :** N.A.

**Extinguishing media:** Agent suitable for surrounding fire, i.e., CO<sub>2</sub>, foam, or water spray may increase contamination hazard.

**Fire fighting instructions:** Keep out of smoke, fight fires form upwind, use self- contained breathing apparatus. Contain runoff to prevent entry into sewers or waterways.

**Flammable properties and hazards:** equipment or material involved in pesticide fires may become contaminated material will ignite if exposed to intense heat or open flame fire or intense heat may rupture containers.



## ACCIDENTAL RELEASE MEASURES.

**Personal Precautions:** Wear appropriate protective gear for the situation.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil.

The affected area should be removed and placed in an appropriate container for disposal.

**Method for clean- up and disposal:** Thoroughly scrub floor or other impervious surface with a strong industrial detergent and rinse with water.

## HANDLING AND STORAGE :

**Hazard Label information:** Store away from incompatible material, wash thoroughly after handling.

**Precautions to be taken in handling and storage:** Avoid breathing dust, avoid contact with skin, eyes, clothing, Store in cool, dry area specifically designated for pesticides, and away from feed, food, sparks and open flame.

**Other precautions:** keep out of reach of children and animals.

Work/hygenic/ maintenance practices: wash hands after handling and before eating, smoking or using restroom.

## EXPOSURE CONTROLS/PERSONAL PROTECTION:

Applicators and other handlers must wear:

Long sleeved shirt and long pants.

Chemical resistant gloves category A (Such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber), all  $\geq$  14 mls.

Shoes plus sock.

Protective eyewear.

**Cleaners and repairers of application equipment must wear:**

Long- sleeved shirt and Long pants.

Chemical resistant gloves.

Chemical resistant footwear.

Protective eyewear



Respirator as outlined above.  
Chemical resistant apron.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them use detergent and hot water.

### PHYSICAL AND CHEMICAL PROPERTIES:

**Physical stats:** Liquid.

**Color:** Colorless.

**PH:** 6

**Density:** 0.945 g/ml.

### STABILITY AND REACTIVITY:

**Stability:** Stable.

**Conditions to avoid:** Sparks and open flames, prolonged exposure to high temperatures.

**In compatibility – Materials to avoid:** Oxidizers, reactive metals.

**Hazardous decomposition or byproducts:** HCL, Phosgene, nitrogen oxides, CO, CO<sub>2</sub>.

**Hazardous polymerization:** will not occur.

### ECOLOGICAL INFORMATION:

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring area. Do not contaminate water when disposing of equipment washwater or rinsate.

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 while bees are activity vesting the treatment area. This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in



areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

### **DISPOSAL CONSIDERATIONS:**

Do not contaminate water, food or feed by disposal pesticide wastes are acutely hazardous.

Container may be triple rinsed then offered for recycling or reconditioning, or punctured and disposed of in a sanitary landfill or by other approved local procedures.

