

## *Material Safety Data Sheet (MSDS)* *Acizone 60 EC*

### IDENTIFICATION OF THE SUPPLIER:

**AGRO CHEMICALS INDUSTRIES LTD**  
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### PRODUCT IDENTIFICATION:

**Trade Name:** Acizon 60 EC  
**Common Name:** Diazinon  
**Chemical Name:** O,O-diethyl 0-[6-methyl -2-(1-methylethyl)-4-pyrimidinyl]  
phosphorothioate.  
**Chemical Formula:** C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS  
**Molecular Weight:** 304.35

### PRODUCT COMPOSITION:

**Active Ingredient:** 60% w/v diazinon  
**Inert ingredient:** UP to 100%

### HAZARDS IDENTIFICATION:

**Risk Phrases :** Harmful if swallowed. Irritating to respiratory system. Harmful : may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.  
Vapours may cause drowsiness and dizziness.

**Environmental hazard :** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Primary route of exposure :** Vapours inhalation. Skin contact.



### Symptoms relating to use

- **Inhalation:** Irritant. Dizziness. Drowsiness.
- **Skin contact:** Itch. Redness, pain. May cause skin to become dry or cracked.
- **Eye contact:** Eye irritant upon direct contact.
- **Ingestion:** Abdominal pain, nausea. Harmful: may cause lung damage if swallowed.

### FIRST-AID MEASURES:

#### -Skin:

If skin contact occurs remove contaminated clothing and wash skin thoroughly with soap and water. If poisoning symptoms develop give atropine tablets as above.

#### -Eyes:

Flush with plenty of water for at least 15 minutes. See medical attention if irritation develops or persists.

#### -Inhalation:

Move to fresh air. Seek medical advice. If poisoning symptoms develop give atropine tablets as above.

#### -Ingestion:

If oral contamination, drink 1-2 glasses of water and milk. Call physician/ poison control center immediately.

### FIRE-FIGHTING MEASURES: -

#### Prevention:

Keep away from sources of ignition. No naked lights. No smoking.

#### Specific hazards:

When exposed to heat, may decompose liberating hazardous gases. Carbon dioxide. Carbon monoxide. Sulphur compounds. Phosphorus oxides.

#### Extinguishing media and methods:

Small fire: Dry chemical.  
Large fire: Foam. Water spray. Water fog.  
Do not use a heavy water stream.  
Surrounding fires: Use water spray or fog for cooling exposed containers.

#### Recommended protective clothing:

Do not enter fire area without proper protective equipment, including respiratory protection.



## Special procedures

Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

### ACCIDENTAL RELEASE MEASURES:

- Personal precautions:** No smoking. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- Spill procedures:** Clean up any spills as soon as possible, using an absorbent material to collect it.
- Disposal procedures:** Dispose of waste safely, according to local Council regulations.

### HANDLING AND STORAGE:

- General:** Keep away from sources of ignition – No Smoking. Do not breathe vapours.
- Precautions in handling and storage:** Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures.
- Technical Protective Measures:** Use grounded electrical/mechanical equipment.
- Handling:** Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- Storage:** Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.



## PHYSICAL-CHEMICAL DATA:

**Color:** yellow liquid  
**Physical state:** liquid  
**Odor:** Characteristic odor  
**PH: (alkalinity or acidity as % H<sub>2</sub>SO<sub>4</sub>):** 7  
**Flammability:** flammable  
**Explosivity:** Non explosive  
**Corrosivity:** Non corrosive  
**Density:** 1.01 g/L  
**Flash point:** 45 °C .  
**Emulsion stability:** Stable

## STABILITY AND REACTIVITY:

**Hazardous decomposition products:** According to process conditions, hazardous decomposition products may be generated. Carbon dioxide. Carbon monoxide. Nitrogen oxides. Phosphorus oxides.

**Conditions to avoid:** Strong acids. Strong oxidizers.

## PERSONAL PROTECTION/SAFETY:

**Personal Protection**  
**Industrial hygiene:**

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Respiratory protection:**

Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

**Eye protection:**

Chemical goggles or face shield with safety glasses.

**Hand protection:**

Wear suitable gloves resistant to chemical penetration.



**Skin Protection:**

If skin contact or contamination of clothing is likely, protective clothing should be worn.

**General Safety & Hygiene measures:**

Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

**TOXICITY INFORMATION:**

**WHO (a.i.) II; EPA (formulation) II**

Route of application	Animal	Active ingredient	Formulated product
Oral LD 50	Rat	1250 mg/kg	≥ 2500 mg/kg
Dermal (LD50)	Rat	3600 mg/kg	≥ 7000 mg/kg
Inhalation (LC50)	Rat	>2330 mg/m <sup>3</sup>	≥ 4660 mg/cm <sup>3</sup>
Skin irritation	Rabbit	540-650 mg/kg. Not irritant	Not irritant
Eye irritation	Rabbit	540-650 mg/kg. Not irritant	Not irritant
Skin sensitization	Quinea Pig	Not sensitization	Not sensitization

**Diazinon:** Not considered carcinogenic, not a potent cholinesterase inhibitor, No teratogenicity, diazinon to be mutagenic, but no fully conclusive evidence exists to support this notion. The mutagenicity in humans remains unevaluated.

**ECOLOGICAL INFORMATION: -**

**Ecological effects information:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Birds**

Acute oral LD50 for mallard ducklings 2.7, young pheasants 4.3 mg/kg.

**Fish**

LC50 (96 h) for bluegill sunfish 16, Rainbow trout 2.6-3.2, carp 7.6-23.4 mg/l.

**Daphnia**

LC50 (48 h) 0.96 µg/l.

**Algae**

>1 ppm.

**Bees**

Highly toxic to bees.

**Worms**

Slightly toxic to earthworms.



## DISPOSAL CONSIDERATIONS:

- Empty container retains product residue.
  - Observe all hazard precautions.
  - Do not distribute or make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from containers by triple rinsing and puncture or otherwise destroy empty containers before disposal.
  - Do not contaminate waterways by cleaning of equipment or disposal of wastes
- Product: Dispose of in compliance with all state and local laws and regulation.**

## TRANSPORT INFORMATION:

**UN NO. :** 3018 ORGANOPHOSPHORUS  
PESTICIDE, LIQUID, TOXIC (DIAZINON  
HYDROCARBON-SOLVENTS (AROMATIC)),

**Class 3**

**Packing group III**

