



# انجلو جلف المحدودة

## ANGLO GULF LIMITED

### Material Safety Data Sheet

#### DARWIN 600EC

#### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Manufacturer:**

M/s. Anglo Gulf Limited

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**Chemical Identification**

**Product Diazinon 60%EC**

EPA Signal Word: CAUTION

Active Ingredient (%): Diazinon (60.0%) (CAS # 333-41-5)

Chemical Name: *O,O*-diethyl-*O*-(2-isopropyl-6-methyl-4-pyrimidinyl)-phosphorothioate

Chemical Class: Organophosphate Insecticide

#### Section 2: Composition/Information on Ingredients

**OSHA ACGIH NTP/IARC/OSHA**

**Material: PEL TLV Other Carcinogen**

Diazinon (60.0%) 0.1 mg/m<sup>3</sup> (Skin) 0.1 mg/m<sup>3</sup> (Skin) Not Est. No

Surfactant Not Established Not Established Not Est. No

Carrier 5 mg/M<sup>3</sup> (Resp. Dust) 10 mg/M<sup>3</sup> (Total Dust) 15 mg/M<sup>3</sup> No  
(Total Dust)

Dispersing Agent Not Established Not Established 15 mg/M<sup>3</sup> No  
(Total Dust)

Sodium Sulfite Not Established Not Established Not Established IARC, 3

Buffering Agent 5 mg/M<sup>3</sup> (Resp. Dust) 10 mg/M<sup>3</sup> (Total Dust) Not Established No  
15 mg/M<sup>3</sup> (Total Dust)

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### Section 3: Hazards Identification

#### Symptoms of Acute Exposure

Symptoms of cholinesterase inhibition can include headache, dizziness, blurred vision, eakness, nausea, cramps, diarrhea, discomfort in the chest, nervousness, sweating, miosis (pinpoint pupils), tearing, salivation, pulmonary edema, uncontrollable muscle twitches, convulsions, coma, and loss of reflexes and sphincter control. If swallowed and aspirated into lungs, chemical pneumonia may result. Eye and skin contact can cause irritation.

#### Hazardous Decomposition Products

None known.

#### Physical Properties

Appearance: Light brown powder.

Odor: Slight sulfur-like

#### Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products include, but are not limited to, various aliphatic organophosphates, substituted pyrimidines, and hydrogen cyanide.

### Section 4: First Aid Measures

If poisoning is suspected, immediately contact a physician, the nearest hospital or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**Ingestion:** If victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person.

Avoid contact with contaminated skin or clothing - wear rubber gloves.

**Eye Contact:** Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

**Skin Contact:** Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

**Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary, preferably by mechanical means. Avoid mouth to mouth resuscitation.

#### Notes to Physician

This product is an organophosphate (cholinesterase inhibiting) insecticide. Atropine is antidotal and should be given i.v. in multiple doses as necessary until the patient is atropinized. In severe cases, 2- PAM may be given provided therapy begins within 24 hours of exposure.

Monitor serum and RBC cholinesterase. Morphine, theophylline, aminophylline, phenothiazines, reserpine, furosemide or ethacrynic acid are contraindicated in organophosphate poisonings. Administer i.v. fluids cautiously if needed to correct dehydration.

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### Medical condition likely to be aggravated by exposure

Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or preexisting cholinesterase depression. Individuals with pre-existing respiratory disorders should use extra care in handling this product.

## Section 5: Fire Fighting Measures

### Fire and Explosion

Flash Point (Test Method): Not applicable.

Flammable Limits (% in air): Lower: N/A Upper: N/A

Autoignition Temperature: >400°C

Flammability: Not flammable (DOT 49CFR 173.124)

### Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products include, but are not limited to, various aliphatic organophosphates, substituted pyrimidines and hydrogen cyanide.

### In case of Fire

Use dry chemical, foam or CO<sub>2</sub> extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

## Section 6: Accidental Release Measures

**In case of spill or leak:** Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH approved dust or pesticide respirator with a dust pre-filter. For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

## Section 7: Handling and Storage

Store the material in a well-ventilated, secure area, out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

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### Section 8: Exposure Controls/Personal Protection

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

**Eye Contact:** To avoid eye contact, wear safety glasses with side shields or chemical goggles.

**Skin Contact:** To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

**Inhalation:** To avoid breathing dust, wear a NIOSH approved dust or pesticide respirator with a dust pre-filter.

**Applicators/Handlers:** Please refer to product label for personal protective clothing/equipment.

### Section 9: Physical and Chemical Properties

Appearance: Light brown liquid.

Odor: Slight sulfur like.

Melting Point: Not available.

Boiling Point: Not applicable.

Specific Gravity/Density: 24 lb./cu. ft.

pH: 8-10 (1% solution in water)

Solubility in water: 60.0 mg/L @ 20oC (diazinon)

Vapor Pressure: 1.20E-02 Pa @ 25oC (diazinon)

### Section 10: Stability and Reactivity

#### Reactivity:

Stability Stable

Hazardous Polymerization: Will not occur

Conditions to avoid: None known.

#### Hazardous Decomposition Products:

None known.

**Product: 655-456 Prentox® Diazinon 50W**

### Section 11: Toxicological Information

#### Acute Toxicity/Irritation Studies

**Ingestion:** Slightly toxic

Oral LD50 (Rat) 1,960 mg/kg body weight

**Dermal:** Slightly toxic

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Dermal LD50 (Rabbit) >2,020 mg/kg body weight

**Inhalation:** Slightly toxic

Inhalation LC50 3 mg/L air – 4 hours

**Eye Contact:** Mildly irritating (Rabbit)

**Skin Contact:** Mildly irritating (Rabbit)

**Skin Sensitization:** Not a sensitizer (Guinea Pig)

**Mutagenic Potential:** Diazinon – none observed

**Reproductive Hazard Potential:** Diazinon – None observed

**Chronic/Subchronic Toxicity Studies:** Diazinon – Cholinesterase inhibition

**Carcinogenic Potential:** Diazinon – None observed

**Other Toxicity Information:** Not available

**Toxicity of Other Components:**

Buffering agent: Repeated exposure may cause conjunctivitis. Exposure can result in mild irritation to mucous membranes, coughing, and shortness of breath. Contact can cause irritation to eyes.

Carrier: Overexposure results in congestion and irritation of the throat, nasal passages and upper respiratory system. Also may cause temporary irritation and inflammation to the eyes.

Dispersing agent: Exposure can result in eye, skin and respiratory tract irritation.

Surfactant: Exposure can result in mild irritation of the eyes and respiratory tract.

**Target Organs:**

Active Ingredients:

Diazinon Central nervous system

Inert Ingredients:

Buffering agent: Eyes and respiratory tract.

Carrier: Eyes and respiratory tract.

Dispersing agent: Eyes, skin and respiratory tract.

Surfactant: Eyes and respiratory tract.

## Section 12: Ecological Information

**Summary of Effects:** Diazinon is highly toxic to birds and aquatic organisms. Avoid exposure to waterfowl.

**Eco-Acute Toxicity:**

Diazinon Rainbow trout 96-hour LC50 1.8 mg AI/L

Bluegill sunfish 96-hour LC50 0.21 mg AI/L

Daphnia Magna 48-hour LC50 0.0011 mg AI/L

Bobwhite Quail Oral LD50 5.2 mg/kg

Mallard Duck Oral LD50 1.44 mg/kg

Bobwhite Quail 8 day dietary LC50 235 ppm

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Mallard Duck 8 day dietary LC50 33 ppm

### Eco-Chronic Toxicity:

Diazinon Fish (Fathead Minnow) Early life stage MATC >0.092 and <0.17 mg/L

Invertebrate (Daphnia Magna) life cycle MATC >0.00017 and <0.00032 mg/L

Mallard reproduction NOEC 10 ppm (ChE inhib., <5ppm)

Bobwhite reproduction NOEC 40 ppm (ChE inhib., <10ppm)

**Environmental Fate:** Diazinon – No data available on the formulation. The information presented here is for the active ingredient, diazinon. A thorough review of environmental information is not possible in this document. For additional information, contact Syngenta Crop Protection, Inc. at 1-800-334-9481.

**Environmental Persistence/Mobility:** Degrades rapidly in water, in the dark at pH 5 (t1/2 = 12 days), more slowly at pH 7 and 9 (t1/2 = 138 days and 77 days, respectively). Degrades more rapidly in the light, in soil (t1/2 = 2.5 days) than in water (t1/2 ~ 25 days @ pH 7). Degrades under aerobic and anaerobic conditions (t1/2 ~ 31-34 days). Mobility varies from very slight, depending on the soil type (Koc = 25 to 2300). Some bioaccumulation in fish (BCF = 500X, whole fish).

## Section 13: Disposal Considerations

**Disposal:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to Federal, State and local health and environmental regulations.

**Characteristic Waste:** Not applicable.

**Listed Waste:** Not applicable.

## Section 14: Transport Information

|                           |   |
|---------------------------|---|
| UN number                 | : 2903  |
| Proper shipping name      | : PESTICIDE LIQUID TOXIC FLAMMABLE, N.O.S. (Diazinon and hydrocarbon solvent) |
| Class and Subsidiary Risk | : 6.1   |
| Packing Group             | : III   |
| EPG                       | : Not applicable  |
| Hazchem code              | : Not applicable  |

## Section 15: Regulatory Information

### SARA Title III Classification:

Section 311/312: Acute Health Hazard

Chronic Health Hazard

Section 313 chemicals:

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Diazinon (60%) (CAS # 333-41-5)

**Proposition 65:** Not applicable

**CERCLA Reportable Quantity (RQ):** 2 pounds

**RCRA Classification:** Not applicable.

**TSCA Status:** Exempt from TSCA

**Product:** 655-456

### Section 16: Other Information

#### FPA Hazard Ratings:

Health 1 0 Least

Flammability 0 1 Slight

Reactivity 0 2 Moderate

3 High

4 Severe

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this information in the specific context of the intended application. ANGLO GULF LIMITED will not be responsible for damages of any nature resulting from use of or reliance upon this information.

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