


**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

<b>Product name:</b>	ACEPHATE 50% + DINOTEFURAN 4% SG
<b>Use / description of product:</b>	Use as an agricultural/horticultural insecticide
<b>Company name:</b>	INDOFIL INDUSTRIES LIMITED Kalpataru Square, 4th Floor, Kondivita Road, Off. Andheri Kurla Road, Andheri (E), Mumbai 400 059, Maharashtra, India. Email: <a href="mailto:customercare@indofil.com">customercare@indofil.com</a> Toll Free No.:1800-120-003-004

**2. HAZARDS IDENTIFICATION**

<b>GHS Classification</b> Aquatic hazard Chronic	Category 1
<b>Hazard Symbol</b>	
<b>Single Word</b>	<b>WARNING</b>
<b>Hazard Statement(s)</b>	H302 Harmful if swallowed. H320 Causes eye irritation. H402 Harmful to aquatic life.  P391 Collect spillage. P501 Dispose of contents or container in accordance with local, regional, national and international regulations.
<b>Other Hazards</b>	Toxic to bees and silkworms

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical name</b>	<b>CAS</b>	<b>%</b>
Active ingredient (Acephate)	30560-19-1	50
Active ingredient (Dinotefuran)	165252-70-0	4
Other ingredients	-----	QS

**4. FIRST AID MEASURES****Most Important symptoms and effects, both acute and delayed****Skin contact**

There may be mild irritation at the site of contact

**Eye contact**

There may be irritation and redness.

**Ingestion**

There may be soreness and redness of the mouth and throat

**Description of first aid measures****In general**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Seek medical advice immediately (show the label where possible)

**After Ingestion**

Do not induce vomiting. Provided the patient is conscious. Wash mouth with water and give plenty of water to drink. Consult a physician or Doctor if victim feels unwell.

**After eye contact**

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**After skin contact**

Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.

**After Inhalation**

Remove to fresh air. Consult a physician if irritation develops

**Indication of any immediate medical attention and special treatment needed**

Supportive care. No specific antidote. Treatment based on judgement of physician, in response to symptoms of patient.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:**

Water spray. Carbon dioxide. Dry chemical powder.

**Exposure hazards:**

May form flammable / explosive dust-air mixture. In combustion emits toxic fumes of sulphur Oxides, nitrogen oxides, carbon dioxide / carbon monoxide.

**Protection of fire-fighters:**

Wear self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:**

Eliminate all sources of ignition. Do not create dust.

**Environmental precautions:**

Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:**

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Do not use equipment in clean-up procedure, which may produce sparks.

**7. HANDLING AND STORAGE**

**Handling requirements:**

Ensure there is sufficient ventilation of the area. Smoking is forbidden. Use non-sparking tools.

**Storage conditions:**

When handling do not eat, drink or smoke.

Store in cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Keep in original containers, out of reach of children Never allow the product to become wet during storage. This may lead to chemical changes, which will reduce the effectiveness as a insecticide and could create flammable vapours.

**Suitable packaging:**

Must only be kept in original packaging.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Engineering measures:**

Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:**

Wear approved respirator.

**Hand protection:**

Protective gloves

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Mixers and loaders must wear overalls, protective goggles and chemical-resistant apron.  
Applicators and other handlers must wear overalls, goggles and waterproof gloves. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Solid

**Colour:** White to Off white granules

**Odour:** Characteristic Odor

**Solubility in water:** Forms solution

**pH** Not applicable

**Flash point °C:** Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Excessive temperatures.

**Hazardous decomp. products:** Decomposition will evolve toxic and irritant vapors.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** DINOTEFURAN and ACEPHATE

Acute toxicity (Assessment largely or completely based on data for active substance)

Acute Oral LD<sub>50</sub> (Rat) Acephate : 2150 mg/kg  
Dinotefuran : > 2000 mg/kg

Acute Dermal LD<sub>50</sub> (Rat) Acephate : > 2000 mg/kg  
Dinotefuran > 2000 mg/kg

Acute Inhalation LD<sub>50</sub> Acephate no data  
Dinotefuran > 2.94 mg/l (male & female Rats)

EYE Irritation (Rabbit) Mild irritation.

SKIN Irritation (Rabbit) Slight Skin irritant

Skin Sensitization (Guinea Pig) Not a skin sensitizer.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity: (Assessment largely or completely based on data for active substance)**

**Aquatic toxicity :** Material is very toxic to aquatic organisms.

**Fish**

LC<sub>50</sub> (96 h), µg/L Acephate : Rainbow Trout > 1000 µg/L (96 h), Bluegill > 2000

Daphnia EC<sub>50</sub> (48 hr) Dinotefuran : Rainbow Trout < 100 mg/L , Bluegill fish 100 mg/L  
Acephate : 27mg/l  
Dinotefuran : < 10 mg/L

**Bird**

Acute Oral, LD<sub>50</sub> Material is practically non-toxic to birds.  
Acephate : 350 mg/kg Mallard duck  
Dinotefuran: no data

**Honey Bee**

LD<sub>50</sub> (oral) Material is highly toxic to bees.  
Acephate : Highly toxic to bees  
Dinotefuran : 0.056 µg/bee

LD <sub>50</sub> (contact)	Acephate : No data Dinotefuran : 0.022 µg/bee
<b>Earthworm</b>	
LC <sub>50</sub> (14 d)	No data
<b>Environmental Fate</b>	
<b>Persistence and Degradability:</b>	Acephate & Dinotefuran : No relevant data available
<b>Bio-accumulation potential:</b>	Acephate & Dinotefuran : No relevant data available
<b>Mobility in soil:</b>	Acephate & Dinotefuran : No relevant data available

### 13. DISPOSAL CONSIDERATIONS

<b>Disposal operations:</b>	Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.
<b>Disposal of packaging:</b>	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. TRANSPORT INFORMATION

#### U.S> Department of Transportation (DOT)

<b>Bulk</b>	
<b>UN no:</b>	2811
<b>Shipping name:</b>	Environmentally Hazardous Substance, solid, n.o.s. (Dinotefuran & Acephate)
<b>Hazard Class:</b>	6.1
<b>Packing group:</b>	III

#### Land Transport (ADR / RID)

<b>UN no:</b>	2811
<b>Shipping name:</b>	Environmentally Hazardous Substance, solid, n.o.s. (Dinotefuran & Acephate)
<b>Hazard Class:</b>	6.1
<b>Packing group:</b>	III

#### Marine Transport (IMDG / IMO)

<b>UN no:</b>	2811
<b>Shipping name:</b>	Environmentally Hazardous Substance, solid, n.o.s. (Dinotefuran & Acephate)
<b>Hazard Class:</b>	6.1
<b>Packing group:</b>	III
<b>Marine pollutant:</b>	Yes
<b>EmS:</b>	F-A, S-F

#### Air transport (IATA / ICAO)

<b>UN no:</b>	2811
<b>Shipping name:</b>	Environmentally Hazardous Substance, solid, n.o.s (Dinotefuran & Acephate)
<b>Hazard Class:</b>	6.1

**Packing group:**

III

**Cargo Packing instructions:**

## 15. REGULATORY INFORMATION

Symbol : Xn : Harmful



Special Risks :

(R-Phrases)

(S- Phrases) :

R22 : Harmful if swallowed.

R51/5 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Safety Advice

S 2 : Keep out of the reach of children

S24/25 Avoid contact with skin and eyes..

S36/37 Wear suitable protective clothing and gloves

S57 Use appropriate containment to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.