

## MATERIAL SAFETY DATA SHEET

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### SECTION 1: CHEMICAL IDENTIFICATION

Product name: **Dormite OD Insecticide**

**Other names** None

**Chemical group** Hydrazine carboxylate

**Recommended use** Agricultural insecticide

**Formulation** Oil dispersion concentrate

Manufacturer: Dor.Ky D&D LTD

P.O.B. 232, Nes Ziona 70400, Israel

Tel : (+)-972-8-9333474 Fax (8) 972-8-9330109

Emergency Tel.: The Israeli Poisoning Center ☎ +972 4 854 1900 📠 +972 4 854 2092

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Bifenazate [CAS149877-41-8]

250 g/Liter

Other ingredients (non-hazardous)

up to liter

### SECTION 3: HAZARDS IDENTIFICATION

**Physical/chemical hazards** : The data available does not support any physical or chemical hazard.

**Human health hazards** : May cause sensitization by skin contact.

**Environmental hazard** : Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

### SECTION 4: FIRST-AID MEASURES

**First-aid** measures

**First aid general** : In the event of any complaints or symptoms, avoid further exposure. Treat symptomatically. If you feel unwell seek medical advice (show the label where possible).

**-Inhalation** : Remove victim to fresh air. Seek medical attention.

**-Ingestion** : Wash out mouth with water. Do not induce vomiting. Seek medical attention immediately.

**-Skin contact** : Remove contaminated clothing. Wash skin thoroughly with water and soap. Seek medical attention if ill effect or irritation develops.

**-Eye contact** : Rinse eyes immediately with plenty of water After 1 - 2 initial minutes remove contact lenses if present. Rinse again with plenty of water. with the eyelid wide open for at least 15 minutes. Seek medical attention if irritation persists.

Protection of first aiders : Avoid exposure. Wear suitable protection.

Primary route of exposure : Eyes , skin , oral and inhalation.

## **SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing media** Water spray, carbon dioxide, foam, sand.

**Hazards from**

**combustion products**

In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxide gases can be expected.

**Precautions for fire fighters**

Fire fighters should wear full protective gear, including self-contained breathing apparatus . Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later. Do not release contaminated water into the environment.

**Hazchem code** 2X

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment as described in Section 8 - PERSONAL PROTECTION. Keep people and animals away. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labeled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

ENVIRONMENTAL PRECAUTIONS WATER SPILL: Contains Pyrethrins, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

## **SECTION 7: HANDLING AND STORAGE**

**Handling** Keep out of reach of children. Product is poisonous if swallowed. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

**Storage** Store in the closed, original container in a cool, dry, well-ventilated area. Do not store for prolonged periods in direct sunlight.

**Flammability** Not flammable .

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure standards** There are no applicable NOHSC exposure standards.

**Biological limitvalues** None allocated

**Engineering controls** Control process conditions to avoid contact. Use in a well-ventilated area only.

**Personal Protective Equipment**

- Wear goggles if exposure is likely.
- Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing).
- Wear elbow-length PVC or nitrile gloves.
- Wear a disposable fume mask.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White to beige liquid suspension

**Odour:** slight

**pH** 5.0 -7.0

**Vapour pressure:** of water

**Boiling point:** ~ 100° C (water)

**Freezing** ~2°C

**Melting point:** Not available

**Solubility** dispersible in water

**Density:** 1.00-1.05 g/mL at 20° C

**Flash Point:** 75° C minimum.

**Explosive limits:** Not applicable

## SECTION 10: STABILITY AND REACTIVITY

**Chemical stability** Stable under normal conditions of use.

**Conditions to avoid** Avoid extreme heat

**Incompatible materials** Avoid acids and alkalis.

**Hazardous Decomposition products** None under normal conditions. In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, and nitrogen oxide gases can be expected.

**Hazardous reactions** None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Toxicity information :**

Oral: LD50 5000 mg/ Kg body weight .

Dermal: LD50. > 2000 mg/kg body weight (rabbit)

Inhalation: LC50 >1.53 mg/l(4H) (rat).

Dermal irritation (rabbit) : Not classified as a skin irritant.

Eye irritation (rabbit) : Not irritating.

Sensitization : Classified as weak sensitizer.

## SECTION 12: ECOLOGICAL INFORMATION

**On active ingredient :**

**Bifenazate** : 96 H-LC50 - Bluegill sunfish [mg/l] : 0,58

**Bifenazate** : 96 H-LC50 - Rainbow trout [mg/l] : 1.4

**Bifenazate** : EC50-48H-Daphnia magna mg/l : 1.4

**Bifenazate** : Acute oral toxicity to birds-LD<sub>50</sub> 1036 mg/Kg (bobwhite quail)

**Bifenazate** Acute oral toxicity to bees LD<sub>50</sub> > 48 µg/bee

**Bifenazate** Acute contact toxicity to bees LD<sub>50</sub> > 8.5 µg/bee

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Do not re-use empty container for any other purpose. Dispose of waste product through a reputable waste contractor.

### **SECTION 14: TRANSPORT INFORMATION**

**-UN No. : 3082**

**-Proper shipping name : Environmentally hazardous substance, liquid, n.o.s (bifenazate)**

**Class : 9**

**-Hazard Label(s) : 9**

**-Packing group : III**

**Air transport**

**-IATA - Class or division : 9**

**-IATA Packing group : III**

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### **SECTION 15: REGULATORY INFORMATION**

Information appearing on label:

Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing vapor or dust. Avoid unnecessary exposure.

Prevent contact with eyes, mouth and nose while using this product. In case of contact with eyes or skin, rinse immediately with plenty of water. In case of inhalation, relocate to ensure thorough ventilation. If swallowed and provided person is conscious, wash out mouth with water provided person is conscious. Seek medical advice (show the label where possible).

Keep away from reach of children, animals, drinking water, food and feed.

Toxic liquid .

Slightly toxic to fish DO NOT contaminate streams, rivers or waterways .

### **SECTION 16: OTHER INFORMATION**

The above information is believed to be correct and is based on the most current and valid information known to us to date.