



MATERIAL SAFETY DATA SHEET

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SECTION 1: CHEMICAL IDENTIFICATION

Product name: **Obelisk O.D**

Other names None

Recommended use Agricultural insecticide

Formulation oil dispersion concentrate

Manufacturer: Dor.Ky D&D LTD

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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Spiromesifen	[CAS 283594-90-1]	250 g/Liter
Other ingredients, including thickening and dispersing agents, antifreeze, preservatives and water (Non-hazardous)		up to liter

SECTION 3: HAZARDS IDENTIFICATION

Label Precautionary Statements:

Emergency Overview Caution! Harmful if swallowed or absorbed through skin.

Avoid contact with skin, eyes and clothing.

Physical State viscous liquid suspension

Odor low characteristic

Appearance white to light grey

Routes of Exposure Ingestion, Eye contact, Skin Absorption

Immediate Effects

Eye Avoid contact with eyes.

Skin Harmful if absorbed through skin. Avoid contact with skin and clothing.

Ingestion Harmful if swallowed. Do not take internally.

Chronic or Delayed

Long-Term

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.

Potential Environmental Effect

Toxic to fish and aquatic invertebrates.

SECTION 4: FIRST-AID MEASURES

General When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.

Notes to Physician

Treatment There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIRE FIGHTING MEASURES

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

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.

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.



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 – water based product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standards there are no applicable NOHSC exposure standards.

Biological limit values 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

Odor: low characteristic

pH 3.5-6.0

Vapor pressure: NA

Vapor density: Not available

Boiling point: ~ 100° C (water)

Freezing/melting point: Not available

Solubility: Disperse with water

Density: 1.00-1.05 g/mL at 20° C

Flash Point: 75° C minimum.

Flammability- not flammable

(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 strong acids and alkalis.

Hazardous Decomposition products

None under normal conditions. In a fire, formation of hydrogen chloride, Carbon monoxide and nitrogen oxide gases can be expected.

Hazardous reactions No hazardous reactions when stored and handled according to prescribed instructions



SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity rat: LC50: > 2.55 mg/l

Skin Irritation rabbit: No skin irritation.

Eye Irritation rabbit: No eye irritation.

Sensitization guinea pig: Non-sensitizing.

Chronic Toxicity Spiromesifen caused effects in the liver, uterus, adrenal and/or thyroid (secondary effect) in chronic studies in rats and dogs.

Assessment Carcinogenicity

Spiromesifen was not carcinogenic in lifetime feeding studies in rats and mice.

Reproductive & Developmental Toxicity

REPRODUCTION: Spiromesifen was not a primary reproductive toxicant in a two-generation study in rats. Reproductive effects were observed only at doses producing systemic toxicity.

DEVELOPMENTAL TOXICITY: Spiromesifen was not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in rats but were considered secondary to maternal toxicity.

Neurotoxicity Spiromesifen caused transient neurobehavioral effects without correlating neuropathological changes in acute and subchronic neurotoxicity screening studies in rats.

Mutagenicity Spiromesifen was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

SECTION 12: ECOLOGICAL INFORMATION

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

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

DOT CLASSIFICATION: Not regulated for Domestic Surface Transportation

IMDG CLASSIFICATION: Environmentally Hazardous Substances, Liquid,

N.O.S.(Spiromesifen)// 9 // UN3082 //PGIII // Marine Pollutant

FREIGHT CLASSIFICATION: Insecticide or Fungicides, N.O.I.; other than poison .

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 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.