

**SAFETY DATA SHEET****SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** **Arino**

**REGISTRATION NUMBER:** 84059-34

**SUPPLIER:** ProFarm Group

**ADDRESS:** 1530 Drew Ave., Davis, CA 95618

**EMERGENCY PHONE:** **INFOTRAC Chemical Response System**  
**US and Canada 1-800-535-5053 (24 hours)**  
**International 1-352-323-3500 (24 hours)**

**OTHER CALLS:** ProFarm Group 530-750-2800 (9am to 5 pm PST) FAX  
**PHONE:** ProFarm Group 530-750-2808

**PRODUCT USE:** Bio-based Insecticide/Nematicide

**SECTION 2: HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:**

Causes mild skin irritation

Harmful to aquatic life

**HAZARD SYMBOLS:****Pictogram** (none)**Signal Word** **Warning****HAZARD STATEMENTS:**

H316 Causes mild skin irritation

H402 Harmful to aquatic life

**PRECAUTIONARY STATEMENTS**

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents in accordance with local and regional regulations

**POTENTIAL ROUTES OF ENTRY:** Oral, eye, and dermal.**CARCINOGENICITY**

OSHA: Not listed

ACGIH: Not listed

NTP: Not listed.

IARC: Not listed

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****SYNONYM:** MBI-306 EP, Onira, Magnevus**ACTIVE INGREDIENT:**Inactivated *Burkholderia rinojensis* strain A396 cells and spent fermentation media**EXPOSURE LIMITS:** None Established

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| COMPONENT   | CAS NUMBER               | PERCENT BY WEIGHT (%) |
|---|--------------------------|-----------------------|
| Inactivated <i>Burkholderia rinojensis</i> strain A396 cells and spent fermentation media | N/A                      | 94.46                 |
| Other (inert and non-reactive ingredients)  | Several (Not applicable) | 5.54                  |

### SECTION 4: FIRST AID MEASURES

**EYES:** Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call poison control center or doctor for treatment advice.

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or physician. Do not give anything by mouth to an unconscious person.

**INHALATION:** Remove person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment.

### SECTION 5: FIRE-FIGHTING MEASURES

#### FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER: Not applicable.

LOWER: Not applicable.

**FLASH POINT:** Not applicable.

**AUTOIGNITION TEMPERATURE:** Not applicable. NFPA

#### HAZARD CLASSIFICATION

HEALTH: Unknown

FLAMMABILITY: 0

REACTIVITY: 0

#### HMIS HAZARD CLASSIFICATION

HEALTH: Unknown

FLAMMABILITY: 0

REACTIVITY: 0

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate for the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** None UNUSUAL

**FIRE AND EXPLOSION HAZARDS:** None HAZARDOUS

**DECOMPOSITION PRODUCTS:** None

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear suitable clothing such as eye protection, long-sleeved shirt, pants and shoes with socks. If spilled, contain - prevent run off into drains and waterways. Absorb liquid with an inert absorbent material. Seal absorbent material in a closed labeled container and dispose of in accordance with local ordinances.

### SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in the closed, original container in a well-ventilated area out of direct sunlight. Keep containers closed when not in use. Empty container completely and dispose of in accordance with all applicable federal, state and local environmental regulations.

OTHER PRECAUTIONS: No special precautions.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Spill controls should be provided for working with large quantities.

VENTILATION: No TLV assigned. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and aerosols below the exposure levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.

RESPIRATORY PROTECTION: Use a dust/mist filtering respirator meeting NIOSH standard of at least N-95, R- 95 or P-95.

EYE PROTECTION: Safety goggles or glasses with side shields are advisable when handling this product.

SKIN PROTECTION: Wear gloves made of Latex or other impervious material.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

WORK HYGIENIC PRACTICES: Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking, after work, or using the toilet.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                         |                        |
|-------------------------|------------------------|
| PHYSICAL STATE:         | Liquid                 |
| COLOR:                  | pale yellow to seafoam |
| ODOR:                   | nutty sweet            |
| pH:                     | 3.5 to 7.0             |
| DENSITY:                | 0.9 to 1.1 g/mL        |
| SOLUBILITY IN WATER:    | Miscible in water      |
| BOILING POINT/RANGE:    | Not determined         |
| FREEZING/MELTING POINT: | Not determined         |

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|                               |                |
|-------------------------------|----------------|
| FLASH POINT:                  | Not determined |
| EVAPORATION RATE:             | Not determined |
| FLAMMABILITY (SOLID. GAS):    | Not determined |
| UPPER FLAMMABILITY LIMITS:    | Not determined |
| LOWER FLAMMABILITY LIMITS:    | Not determined |
| VAPOR PRESSURE:               | Not determined |
| VAPOR DENSITY:                | Not determined |
| RELATIVE DENSITY:             | Not determined |
| SOLUBILITY IN OTHER SOLVENTS: | Not determined |
| PARTITION COEFFICIENT:        | Not determined |
| AUTOIGNITION TEMPERATURE:     | Not determined |
| DECOMPOSITION TEMPERATURE:    | Not determined |
| KINEMATIC VISCOSITY:          | Not determined |
| DYNAMIC VISCOSITY:            | Not determined |
| EXPLOSIVE PROPERTIES:         | Not determined |
| OXIDIZING PROPERTIES:         | Not determined |

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Stable.

INCOMPATIBILITY (MATERIAL TO AVOID): None known

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known

HAZARDOUS POLYMERIZATION: Not known to occur

CONDITIONS TO AVOID (POLYMERIZATION): None

**SECTION 11: TOXICOLOGICAL INFORMATION**

|  |                                    |
|--|------------------------------------|
| ACUTE ORAL TOXICITY LD <sub>50</sub> :   | >5000 mg/kg (rat). Not categorized |
| ACUTE DERMAL TOXICITY LD <sub>50</sub> : | >5000 mg/kg (rat). Not categorized |
| ACUTE INHALATION LC <sub>50</sub> :      | >5.12 mg/L (rat). Not categorized  |
| EYE IRRITATION:                          | Not categorized.                   |
| SKIN IRRITATION:                         | Category 3.                        |
| SKIN SENSITIZATION:                      | Not categorized.                   |

**SECTION 12: ECOLOGICAL INFORMATION**

|                               |   |
|-------------------------------|---|
| Avian Acute Oral Toxicity:    | Not categorized (OCSPP 850.2100) Bobwhite Quail. LD <sub>50</sub> > 2000 mg a.i./kg-bw.   |
| Acute aquatic toxicity:       | Category 3.<br>(OECD 203) Rainbow trout (96-hour acute toxicity) LC <sub>50</sub> > 100mg/L AI.<br>(OECD 202) <i>Daphnia magna</i> (48-hour acute toxicity) EC <sub>50</sub> = 37 mg/L.<br>(OCSPP 850.4400) Lemna (7 day toxicity test) NOEC = 64mg/L |
| Bee's and beneficial insects: | (OECD 213) Honey Bee (Acute Oral) LD <sub>50</sub> >100 µg a.i./bee<br>(OECD 214) Honey Bee (48-hour contact) LD <sub>50</sub> >100 µg a.i./bee<br>(OECD 222) Earth Worm (Toxicity Test) LC <sub>50</sub> >1000 mg/kg dry soil                        |

**SECTION 13: DISPOSAL CONSIDERATIONS**

Do not reuse containers. Dispose of in accordance with all applicable federal, state, and local environmental

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regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

U.S. DOT: Not regulated

IATA DGR: Not regulated

IMDG: Not regulated

Freight Classification: Insecticide. See NMFTA code.

**SECTION 15: REGULATORY INFORMATION****INTERNATIONAL REGULATIONS**

TSCA: Exempt

**U.S. FEDERAL REGULATIONS**

CERCLA: Not applicable.

**SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:**

Immediate (acute) Health: None

Delayed (chronic) Health: None

Fire: None

Sudden Release of Pressure: None

Reactivity: None

SARA 313: Not determined

U.S. STATE REGULATIONS: None

**US STATE RIGHT-TO-KNOW REGULATIONS: This material contains the following****New Jersey Right To Know Components**

|           |         |          |
|-----------|---------|----------|
| 1-hexanol | CAS No. | 111-27-3 |
|-----------|---------|----------|

|                  |         |         |
|------------------|---------|---------|
| Propylene glycol | CAS No. | 57-55-6 |
|------------------|---------|---------|

**Pennsylvania Right To Know Components**

|           |         |          |
|-----------|---------|----------|
| 1-hexanol | CAS No. | 111-27-3 |
|-----------|---------|----------|

|                  |         |         |
|------------------|---------|---------|
| Propylene glycol | CAS No. | 57-55-6 |
|------------------|---------|---------|

**California Proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SAFETY DATA SHEET****SECTION 16: OTHER INFORMATION**

SPECIAL HAZARDS: Not Determined

Date Issued: 11 March 2025

Revision Number: 1

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