

### 1: Identification of the Substance and Supplier

Product Name ACTELLIC 50EC

Recommended Use Insecticide

**Suppliers Details** Orion AgriScience Ltd

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**Telephone Number** (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

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### 2: Hazards Identification

#### **Hazard Pictograms**

### **Signal Words**

### **Hazard Classes:**

3.1C Flammable Liquid (Cat. 3)

6.1E Acute Toxicity (Oral Cat. 5)

6.1E Acute Toxicity (Dermal Cat. 5)

6.1E Aspiration Hazard (Cat. 1)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.8B Reproductive Toxicity (Cat. 2)

6.9A Target Organ Systemic Toxicity (Oral Cat. 1)

9.1A Aquatic Ecotoxicity (Cat. 1)

9.2D Soil Ecotoxicity

9.3A Terrestrial Vertebrate Ecotoxicity

9.4A Terrestrial Invertebrate Ecotoxicity

### **Precautionary Statements:**

Prevention

#### Danger

#### **Hazard Statements:**

H226 Flammable liquid and vapour

H303 May be harmful if swallowed

H313 May be harmful in contact with skin

H305 May be harmful if swallowed and enters airways

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic organisms with long lasting effects

Harmful to the soil environment

Very toxic to terrestrial vertebrates

Very toxic to terrestrial invertebrates

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking

P233 Keep container tightly closed

P240 Ground and bond container and receiving equipment

P241 Use explosion proof electrical/ventilating/lighting equipment

P242 Use non sparking tools

P243 Take action to prevent static discharges

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash hands thoroughly after handling

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P203 Obtain, read and follow all safety instructions before use

P270 Do not eat, drink or smoke when using this product



Keep out of reach of children. Read label before use. Do not use until all safety precautions have been read and understood. Use only outdoors or in a well ventilated area. Explosive concentrations of vapours may form in enclosed or poorly ventilated areas. Always use diluted in water. Never use neat. Concentration of Actellic 50EC should not exceed 8% in spray solution. Do not use with thermal foggers. Do not apply using hand gun equipment. Do not use near air vents or ducts. Avoid contact with eyes and skin. Do not breathe in the vapour or spray mist. When mixing or applying, wear personal protection as described in section 8. Take off contaminated clothing and wash before reuse. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water. Do not apply this substance to plants if bees are foraging, or the plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees).

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water (or shower)

P370+P378 In case of fire use water spray, foam, dry chemical or C02 to extinguish. Avoid water jet

P301+P317 IF SWALLOWED: Get medical help P302+P317 IF ON SKIN: Get medical help

P301+P316 IF SWALLOWED: Get emergency medical help immediately

P331 Do NOT induce vomiting

P332+P317 If skin irritation occurs get medical advice

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing P337+P317 If eye irritation persists: Get medical help

P302+P352 IF ON SKIN: Wash with plenty of water

P333+P317 If skin irritation or rash occurs: Get medical help

P321 Specific treatment (See first aid instructions)

P362+P364 Take off contaminated clothing and wash it before reuse

P318 If exposed or concerned, get medical advice

P319 Get medical help if you feel unwell

P391 Collect spillage

First aid measures described in section 4. Fire extinguishing instructions described in section 5. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243

6225) 24 hrs

P403+P235 Store in a well ventilated place. Keep cool

P405 Store locked up

Keep out of reach of children

P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

#### 3: Composition/ Information on Ingredients CAS No Ingredient Content (% w/v) Pirimiphos-methyl (active ingredient) 29232-93-7 50 Solvent naphtha 64742-94-5 30 - 60Isobutanol 78-83-1 < 10 Other ingredients Proprietary Remainder

### 4: First Aid Measures

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Storage

Response

Disposal



If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice. For advice call the National Poisons Centre or a Doctor.

Ingestion: Do NOT induce vomiting. Seek medical advice immediately.

**Skin Contact:** Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs, or if feeling unwell. **Eye Contact:** 

Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell

**Workplace Facilities:** Hand wash facility. Eye wash facility

Advice to Doctor: Actellic 50EC is an organophosphorus insecticide, which inhibits cholinesterase activity, and interferes in

> nerve pulse transmission. Onset of symptoms may be delayed for several hours. Atropine is the specific antidote and may be given immediately by qualified staff, at a level of 2 - 5mg (intravenously or intramuscularly), every 20 minutes until atropinisation occurs. Considerable amounts of atropine may be necessary. Atropine must NOT be given to cyanosed patients; administer oxygen first. Do NOT use opiates or barbiturates. If convulsions occur, administer diazepam (10mg intravenously). Take venous blood sample for determination of blood cholinesterase activity. Cholinesterase reactivators (Pralidoxime) should, if possible, be given at the same time as atropine. They are not effective after 24 hours post exposure and are not substitutes for atropine. Pralidoxime should be administered at: Mild poisoning: 1g in 2 - 3ml water (intramuscularly), Severe poisoning: 2g in 30ml water (intravenously). Following ingestion, adsorbents such as charcoal may be of value. If gastric lavage or emesis is considered necessary, inhalation of

hydrocarbons must be prevented. Hydrocarbon aspiration may complicate poisonings involving ingestion. 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion: Nausea, vomiting, abdominal pain, weakness, unconsciousness. The solvent in this product may cause

bronchopneumonia or pulmonary oedema if aspirated into the lungs from ingestion or from vomiting.

Skin Contact: Irritation. Contact may induce an allergic response in susceptible individuals

**Eye Contact:** Irritation and eye damage

Inhalation: Headache, nausea, cough, sore throat

### 5: Fire-Fighting Measures

**National Poison Centre** 

Fire/Explosion Hazard Flammable liquid and vapour.

**HAZCHEM Code** 3Y **ERP Guide No** 14

**Extinguishing Media** Water spray, foam, dry chemical or C02. Avoid water jet.

**Fire Fighting Instructions** During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

**Specific Hazards Arising from Fire** No data available

### **6: Accidental Release Measures**

Caution: Floors may be slippery if wet. Eliminate all ignition sources and naked lights. Use non-sparking **Personal Precautions** 

> equipment. Leave and/or avoid entering confined spaces. Wear personal protective clothing and equipment as described in section 8. Respiratory protection (with organic vapour cartridge) required for any spill other

than minor. Exclude non-essential people from the area.

**Environmental Precautions** Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean Up Absorb spillage with inert material such as spill kit, sand or cat litter. Collect and place in a sealable

container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for

disposal. Dispose of safely to a suitable landfill.

### 7: Handling and Storage

Storage: Keep out of reach of children. Store in the original tightly closed container in a cool, well ventilated, locked

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and secure area.

Handling and Use: Refer to Prevention statements in section 2 above. Exclude people and animals from the application area,

both during application and for the duration of the REI..

**REI** 12 hours from application

### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

**Engineering Controls**Select spray application equipment to minimize exposure to operator and bystanders

**Biological Monitoring** Regular users in direct contact (mixing and application) should undergo biological monitoring of

cholinesterase activity. Consult with your GP or Occupational Health Adviser.

**Personal Protection:** 

**Eye** Safety glasses/goggles (or full face respirator incorporating visor) when mixing or applying

**Skin** Chemical resistant coveralls with hood tightly fitting at head, wrists and ankles (e.g., Tychem F suit),

chemical resistant boots and chemical resistant gloves (barrier multilayer, nitrile, neoprene, butyl).

**Respiratory**Not required where vapour or spray mist is not inhaled. Otherwise, respirator (organic vapour and

particulate matter) is required.

Clean protective equipment after use

### 9: Physical and Chemical Properties

**Appearance** Clear Amber Liquid

**Odour** Solvent

Odour ThresholdNo data availablepHNot ApplicableMelting Point/Freezing PointNo data availableBoiling PointNo data availableFlash Point49°C (closed cup)

Flammability Flammable liquid and vapour

 Upper/Lower Flammability Limits
 No data available

 Vapour Pressure
 No data available

 Vapour Density
 > 1 (heavier than air)

 Relative Density
 1.03 g/mL (approx.)

 Solubility in Water
 Emulsifiable

Solubility in WaterEmulsifiablePartition Coefficient: n-octanol/waterSee section 12Auto ignition TemperatureNo data availableDecomposition TemperatureNo data available

Kinematic Viscosity Contains a low viscosity hydrocarbon solvent

### 10: Stability and Reactivity

**Stability** Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone KnownHazardous Decomposition ProductsNone Known

### 11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity

Skin Irritant/Corrosive

LD50 > 2000 mg/kg

LD50 > 5 mg/L

Mild Skin Irritant

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Eye Irritant/Corrosive Strongly Irritating

Sensitisation Effects May cause an allergic skin reaction in susceptible individuals

Mutagenic Effects None
Carcinogenic Effects None

Reproductive Effects Animal feeding studies on rats found pirimiphos-methyl decreased mating performance and pregnancy

rate over 3 – 4 generations

Specific Organ Toxicity Pirimiphos-methyl is an organophosphorus compound and Interferes with cholinesterase, an enzyme

essential for the correct functioning of the nervous system

### 12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

### The following information is presented in respect of the active ingredient:

Acute Oral LD50 (Bobwhite quail) 40 mg/kg

LC50 (96 hr) (Rainbow trout) 0.64 mg/l

LC50 (48 hr) (Daphnia) 0.21 μg/l

Algae EC50 1.0 mg/l

• Bee LD50 (24 hr) > 0.22 μg/bee

**Persistence/degradability** Biodegradable. DT50 (soil) 3.5 – 30 days

**Bioaccumulative Potential** Octanol-water partition coefficient LoqP = 4.2 (high)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 1100 (slightly mobile)

Environmental Exposure Limit: None established

### 13: Disposal Considerations

**Product** Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

Container Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose.

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### 14: Transport Information

Dangerous Goods

UN Number 1993

**Proper Shipping Name** FLAMMABLE LIQUID, N.O.S. (SOLVENT NAPHTHA 36%, BUTANOL 2%)

Class

Subsidiary Class None
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 250 litres

Passenger Service Vehicle 1 litre

### 15 Regulatory Information

EPA Approval No HSR000196
ACVM Registration No P3590
Qualified Person Required
Certified Handler Not required

Workplace Only No

Tracking Not required

**Record Keeping**Not required (unless > 3 L applied within 24 hours, and which is likely to leave the application area)

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### Site Requirements under EPA Notice and HSWHS Regs:

- A hazardous substance location compliance certificate is required for more than 500 L (closed containers > 5 L size), 1500 L (closed containers ≤ 5 L size), or 250 L (open containers)
- A hazardous area is required
- Separation distances for class 3 and class 6 substances to protected places and public places is applicable
- Fire extinguishers are required for more than 500 L (2 fire extinguishers)
- Signage is required for more than 100 L
- An emergency response plan is required for more than 100 L
- Secondary containment is required for more than 100 L
- Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is required

**Additional Requirements** 

Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

16: Other Information	
Glossary	
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are
	expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day
Certified Handler	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and
	6.1B)
DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
<b>Environmental Exposure Limit</b>	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals
Hazardous Substance Location	For locations storing hazard substances of certain classes above threshold quantities
Compliance Certificate	
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% or organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road
	by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and
	other details as described
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10
	form, as an indicator that a substance may bioaccumulate
Protected Place	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where
	people assemble
Public Place	A place frequented by the public, including roads (does not include private property)
Qualified Person	A requirement for the loader, contractor or person applying the product to hold a qualification such as a
	GROWSAFE Certificate, Unit Standard 21563, etc.

Includes a spray diary or other record of application

Restricted Entry Interval – The length of time after application before entry into the treated area is

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**Record Keeping** 



permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.

Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

Separation Distances The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

**Signage** Positioned at entrances to commercial premises providing information on the hazardous substances

resent

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

**Soil Organic Carbon-Water**The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.

Partitioning Coefficient (Koc)

The higher the value the less mobile the chemical is in soil

STEL

Short term exposure level – 15 minute time weighted average

**Tolerable Exposure Limit**Maximum concentration limit of a substance above which persons must not be exposed

**Tracking** For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Segregation

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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