

1: Identification of the Substance and Supplier

Product Name PROHIVE
Recommended Use Insecticide

Suppliers Details Orion AgriScience Ltd

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 Email Address
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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)

Date of Issue/Revision July 2020

2: Hazards Identification

Hazard Pictograms

Signal Words

Hazard Classes:

6.1C Acute Toxicity (Oral Cat. 3)

6.1D Acute Toxicity (Inhalation Cat. 4)

6.3B Skin Irritation (Cat. 3)

6.4A Eye Irritation (Cat. 2)

6.5B Skin Sensitisation (Cat. 1)

6.9B Target Organ Systemic Toxicity (Oral Cat. 2)

9.1A Aquatic Ecotoxicity (Cat. 1)

9.3A Terrestrial Vertebrate Ecotoxicity

9.4B Terrestrial Invertebrate Ecotoxicity

Precautionary Statements:

Prevention



Danger

Hazard Statements:

H301 Toxic if swallowed

H332 Harmful if inhaled

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Very toxic to terrestrial vertebrates

Toxic to terrestrial invertebrates

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions

P264 Wash hands thoroughly after handling

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

P271 Use only outdoors or in a well ventilated area

P280 Wear eye protection / face protection

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

P280 Wear protective gloves

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

Avoid contact with eyes and skin. Do not breathe in the dust or spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. This product is toxic to bees. 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). Do not apply directly into or onto water.

Page: 1 of 7



Response P301+P316 IF SWALLOWED: Get emergency medical help immediately

P321 Specific treatment (Refer section 4)

P330 Rinse mouth

P304+P340 IF INHALED: Move person to fresh air and keep comfortable for breathing

P317 Get medical help

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

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

P319 Get medical help if you feel unwell

P391 Collect spillage

First aid measures described in section 4. 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).

Storage P405 Store locked up

Keep out of reach of children.

Disposal 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

IngredientCAS NoContent (% w/w)Pirimicarb (active ingredient)23103-98-250

Other ingredients Proprietary Remainder

4: First Aid Measures

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

Ingestion: Rinse mouth. Seek medical advice immediately

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

occurs

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: Prohive is a carbamate insecticide, which inhibits cholinesterase activity, and interferes in nerve pulse

transmission. On set 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 - 4mg (intravenously or intramuscularly), every 15 minutes until atropinisation occurs. Cholinesterase reactivators (Pralidoxime) are of limited value and

may be harmful. Following ingestion, adsorbents such as charcoal may be of value.

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

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

Ingestion: Excessive sweating, salivation, headache, weakness, nausea, diarrhoea, vomiting, small pupils, blurred vision,

muscle twitching, slurred speech.

Skin Contact: Irritation. Contact may induce an allergic response in susceptible individuals. Can be absorbed via the skin

(see symptoms under 'swallowed' above).

Eye Contact: Irritation. May cause constriction of the pupil

Page: 2 of 7



Inhalation: Irritation. Can be absorbed via the lungs (see symptoms under 'swallowed' above).

Note: Symptoms may be delayed for up to 24 hours or more following exposure

5: Fire-Fighting Measures

Fire/Explosion Hazard Non-flammable. As with many dusts, an explosive air/dust mixture may be formed if rough handling

liberates dust from the granules in enclosed or poorly ventilated areas.

HAZCHEM Code 2X ERP Guide No 34

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

Personal Precautions Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from

the area.

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

Clean Up Keep bystanders away. Do not inhale dust. If dust is generated, wear respiratory protection (with organic

vapour cartridge). Moisten to prevent dusting and carefully sweep up. Place spilled product in a sealable

container. Dispose of to a suitable landfill.

7: Handling and Storage

Storage: Keep out of reach of children. Store in the original tightly closed container in a locked and secure area.

Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

REI 24 hours

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

Engineering ControlsSelect application equipment to minimize exposure to operator and bystanders

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 dust 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 Grey granules

Odour Pungent

Odour Threshold No data available

pH Not applicable

Melting Point/Freezing PointNo data availableBoiling PointNo data available

Flash Point Not applicable

Flammability Not flammable

Upper/Lower Flammability LimitsNot available. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates

Page: 3 of 7



dust in enclosed or poorly ventilated areas

Vapour Pressure No data available **Vapour Density** No data available **Relative Density** No data available Dispersible Solubility in Water Partition Coefficient: n-octanol/water See section 12 **Auto ignition Temperature** Not applicable **Decomposition Temperature** No data available No data available **Kinematic Viscosity**

10: Stability and Reactivity

Stability Stable under normal conditions

Hazardous Reactions None Expected

Incompatibility Do not mix with fertilizers

Hazardous Decomposition Products None 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 ToxicityLD50 > 50 mg/kgAcute Dermal ToxicityLD50 > 5000 mg/kgAcute Inhalation ToxicityLD50 > 1 mg/L

Skin Irritant/Corrosive Irritation

Eye Irritant/Corrosive Irritation

Sensitisation Effects May cause an allergic skin reaction in susceptible individuals

Mutagenic EffectsNoneCarcinogenic EffectsNoneReproductive EffectsNone

Specific Organ Toxicity Pirimicarb is a carbamate, 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) 21 mg/kg

• LC50 (96 hr) (Rainbow trout) 79 mg/l

• LC50 (48 hr) (Daphnia) 0.017 mg/l

• Algae EC50 (96 hr) 140 mg/l

• Acute Oral LD50 (Bee) 4 μg/bee

Persistence/degradability Biodegradable DT50 (soil) 73 days (typical)

Bioaccumulative Potential Octanol-water partition coefficient LogP = 1.7 (low)

Soil Mobility Soil organic carbon water partitioning coefficient No data available

Environmental Exposure Limit: None established

13: Disposal Considerations

Page: 4 of 7



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.

14: Transport Information

Dangerous Goods

UN Number 2757

Proper Shipping Name CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB 50%)

Class 6.1
Subsidiary Class None
Packing Group III

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 250 Kg

Passenger Service Vehicle 3 Kg maximum

15 Regulatory Information

EPA Approval No

ACVM Registration No

P5948

Qualified Person

Certified Handler

Workplace Only

HSR000709

P5948

Required

Not required

Yes

Tracking Not required

Record Keeping Required. Mitigation measures must be recorded as part of the application records

Site Requirements under EPA Notice

and HSWHS Regs:

A hazardous substance location compliance certificate is required

- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is applicable
- Fire extinguishers are not required
- Signage is required for more than 100 Kg
- An emergency response plan is required for more than 100 Kg
- Secondary containment is not required
- Segregation from incompatible substances (Classes 1 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

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

EPA Notice Hazardous Property Controls Notice 2017

Page: 5 of 7



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

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

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.

Record Keeping Includes a spray diary or other record of application

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

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

Segregation 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 DistancesThe 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-WaterThe 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 LimitMaximum 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

Page: 6 of 7



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.