

1: Identification of the Substance and Supplier

Product Name GESAPON

Recommended Use Insecticide

Suppliers Details Orion AgriScience Ltd

Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053

PO Box 39 071, Harewood, Christchurch, 8545

 Web Address
 www.orionagriscience.co.nz

 Email Address
 orders@orionagriscience.co.nz

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:

6.1D Acute Toxicity (Oral Cat. 4)

6.1E Acute Toxicity (Dermal Cat. 5)

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:

H302 Harmful if swallowed

H313 May be harmful in contact with skin

H361 Suspected of damaging fertility or the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

Harmful to the soil environment

Very toxic to terrestrial vertebrates

Very 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

P203 Obtain, read and follow all safety instructions before use

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

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

P280 Wear eye protection / face protection

Read label before use. Avoid contact with eyes and skin. Do not breathe in the dust. 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. 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.

P301+P317 IF SWALLOWED: Get medical help

P330 Rinse mouth

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Response



P302+P317 IF ON SKIN: Get medical help

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. 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		
Ingredient	CAS No	Content (% w/w)
Diazinon (active ingredient)	333-41-5	20
1,2-ethanediol	107-21-1	<10
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: Seek medical advice

Skin Contact: Wash with plenty of soap and water. Seek medical advice 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: Gesapon is an organophosphorus 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 - 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.

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, faintness, nausea, diarrhoea, small pupils, blurred vision,

muscle twitching.

Skin Contact: Can be absorbed via the skin (see symptoms under 'swallowed' above).

Eye Contact: May cause irritation. May cause constriction of the pupil.

Inhalation: May cause 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

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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 2Z ERP Guide No 47

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. Leave and/or avoid entering confined spaces. Do not inhale dust or vapour. 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 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 None specified (Also refer Section 15)

8: Exposure Controls / Personal Protection

Tolerable Exposure Limit None established

Workplace Exposure Standards Diazinon 0.1 mg/m3 (8hr TWA); 1,2-ethanediol – 50 ppm / 127 mg/m3 (ceiling)

Engineering ControlsSelect application equipment to minimize exposure to operator and bystanders

Biological MonitoringRegular users should undergo biological monitoring of cholinesterase activity. Consult with your GP or

Occupational Health Adviser.

Personal Protection:

Eye Safety glasses/goggles when mixing or applying

Skin Cotton overalls snugly fitting at the neck, wrist and ankle, boots and gloves (barrier multilayer, nitrile,

neoprene) when mixing and applying

RespiratoryNot required where dust or vapour is not inhaled. Otherwise, respirator (organic vapour and particulate

matter) is required.

Not flammable

Clean protective equipment after use

9: Physical and Chemical Properties

Appearance Green Granules

Odour Pungent

Odour ThresholdNo data availablepHNot applicableMelting Point/Freezing PointNo data availableBoiling PointNo data availableFlash PointNot applicable

Upper/Lower Flammability Limits Not available. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates

dust in enclosed or poorly ventilated areas

Vapour PressureNo data availableVapour DensityNo data availableRelative DensityNo data available

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Flammability



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

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 > 300 mg/kgAcute Dermal ToxicityLD50 > 2000 mg/kgAcute Inhalation ToxicityLD50 > 5 mg/L

Skin Irritant/Corrosive Irritation

Eye Irritant/Corrosive Irritation

Sensitisation Effects None

Mutagenic Effects None

Carcinogenic Effects None

Reproductive Effects Diazinon is a suspected human reproductive or developmental toxicant

Specific Organ ToxicityDiazinon 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 (Mallard duck) 2.7 mg/kg

• LC50 (96 hr) (Rainbow trout) 2.6 – 3.2 mg/l

LC50 (48 hr) (Daphnia) 0.96 μg/l

Algae EC50 >1 mg/l

• Acute Oral LD50 (Bee) 0.20 μg/bee

Persistence/degradability Biodegradable DT50 (soil) 9 days (typical)

Bioaccumulative Potential Octanol-water partition coefficient LogP = 3.69 (high)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 609 (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. Do not burn. Do not use packaging for any other purpose.

14: Transport Information

Dangerous Goods

UN Number 3077

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Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIAZINON 20%)

Class

Subsidiary Class
Packing Group

Additional Information MARINE POLLUTANT

MTQ (Non-Commercial) 1000 Kg

Passenger Service Vehicle No restriction

15 Regulatory Information

EPA Approval No
ACVM Registration No
P2130

Qualified Person
Certified Handler
Workplace Only
No
HSR000175
Required
Not required
No

Tracking Not required

not required

Site Requirements under EPA Notice

Record Keeping

and HSWHS Regs:

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

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not 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 is not required

Application Rates Maximum application rate 15 Kg/ha. Maximum application frequency 2 times per crop cycle

Notification

For aerial application, written notification must be given to any persons likely to be affected – this includes occupiers and owners immediately neighbouring the application area. Notification must be made 2 days – 4 weeks ahead of the application. Notification must include the location of the application area; the proposed date and approximate duration of the application; the steps to be taken by those notified to avoid exposure (e.g., staying indoors, closing windows and doors, moving washing indoors, disconnecting

during application).

Private Residential PropertyFor application by professional at private residences, an information sheet must be provided to the

occupier that states the product details (Gesapon must be named, and diazinon as the active ingredient at 20% must be stated); that the substance may be harmful if swallowed or is in contact with the skin; that people and animals (including children and pets) must not go onto the treated area until granules have been watered in and are no longer visible; the symptoms of poisoning; an instruction to seek medical advice if anyone is exposed to or consumes the substance; and a 24 hour emergency phone number. The

roof water supply, etc.); and the notifiers details (including name and phone number for immediate contact

notice must be in compliance with the Hazardous Substances (Identification) Regulations 2001.

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

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Certified HandlerA 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

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

present

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 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

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of the product

TWATime weighted average calculated over an 8 hour working day

exposed

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

Please Note

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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