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Infosafe No™ 3NUNG Issue Date : March 2024 ISSUED by NUFARMNZ

Product Name KAISO® 50WG

#### **Section 1 - Identification**

KAISO® 50WG **Product Identifier** 

**Product Code** 01759

Synthetic pyrethroid insecticide **Product Type** 

Nufarm NZ **Company Name** 

Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Address

Auckland 1051 New Zealand

Telephone/Fax

Number

Tel: 0-9-270 4150

nzinfo@nufarm.com

**Emergency Phone** 

Number

0800 651 911

Email Recommended uses

and any restrictions

on use or supply

A synthetic pyrethroid insecticide for the control of foliar pests in amenity turf, beans, cereals, citrus, grapes, fodder beet, forage herbs, kumara, maize, onions, ornamentals, potatoes, plantain and plantain/clover swards, pumpkins, sugar beet, sweetcorn, tomatoes, vegetable and forage brassicas, and

winter squash.

This SDS describes, to the best of our knowledge, the properties of the **Other Information** 

> concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

### Section 2 - Hazard(s) Identification

GHS classification of Acute oral toxicity: Category 4

Acute inhalation toxicity: Category 4 the

Eye irritation Category 2 substance/mixture

Specific target organ toxicity - repeated exposure: Category 2

Hazardous to the terrestrial environment: Hazardous to terrestrial vertebrates

Hazardous to the terrestrial environment: Hazardous to terrestrial

invertebrates

Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1

WARNING Signal Word (s)

Hazard Statement (s) H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H371 May cause neurotoxicity and lung damage from repeated oral or inhalation

exposure at high doses.

H410 Very toxic to aquatic life with long lasting effects.

H432 Toxic to terrestrial vertebrates.

H441 Very Toxic to terrestrial invertebrates.

**Precautionary Statement – General**  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.

Exclamation mark, Health hazard, Environment Pictogram (s)







**Precautionary** Statement -Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.





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P273 Avoid release to the environment.

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

protection/hearing protection.

Precautionary Statement – Response P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

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

breathing.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage. P405 Store locked up.

Precautionary

Statement-Storage

P501 Dispose of contents/container to an approved landfill.

Statement - Disposal

**Precautionary** 

### **Section 3 - Composition and Information on Ingredients**

Chemical Solid

Characterization

 Ingredients
 Name
 CAS
 Proportion

 Lambda-cyhalothrin technical ingredients determined to be non-hazardous
 91465-08-6
 50 g/kg

 Ingredients determined to be non-hazardous
 30-60%w/w

 Perlite
 93763-70-3
 30-60%w/w

#### **Section 4 - First Aid Measures**

First-aid Measures For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

attention.

Inhalation Remove patient to fresh air. Lay down and keep warm and rested. If breathing

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do NOT

induce vomiting. For advice, contact the National Poisons Centre (0800 764

766). Seek medical assistance immediately.

Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Eye Flush eyes with plenty of water for 15 minutes holding eyelids open if

necessary. Seek medical assistance. Remove contact lenses, if present and

easy to do.

First-aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower.

Advice to Doctor Treat symptomatically.

Exposure to lambda-cyhalothrin can result in sensations of tingling especially in the face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in

reducing discomfort.

#### **Section 5 - Firefighting Measures**

Suitable Water fog, foam, carbon dioxide or dry chemical.

**Extinguishing Media** 

Products





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Special protective

Full protective clothing and self-contained breathing apparatus.

equipment for fire-fighters

Do not allow washings to reach sewage or effluent systems. Keep up wind. **Specific Methods** 

Contain run-off and dispose of fire control water later.

**Hazchem Code** 

**Decomposition Temperature** 

Other Information

Information is not available.

Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

**Section 6 - Accidental Release Measures** 

Spills and Disposal Wear protective clothing. Clear area of unprotected personnel. Sweep up

solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill. Wash area with water and absorb with further inert material. Dispose of waste safely in an

approved landfill.

**Personal Protection** For appropriate personal protective equipment (PPE), refer Section 8.

Environmental **Precautions** 

Prevent from entering drains, waterways or sewers.

#### Section 7 - Handling and Storage

**Precautions for Safe** Handling

The person mixing or applying this product must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified

Loader'.It is the duty of the PCBU that a person who uses, handles,

manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017.

Avoid skin and eye contact and inhalation of spray mist.

Do not apply when bees are actively foraging. Avoid direct application to bee hives. Spray must not contact plants in flower if they are likely to be

visited by bees.

Do not apply directly onto, into or over water.

CERTIFIED HANDLER: Is not required.

TRACKING: Is not required.

RECORD KEEPING: Records of use as described in NZS 8409 Management of

Agrichemicals must be kept if 3kg or more of Kaiso 50WG is applied within 24

**Conditions for safe** storage, including any incompatibilities

Keep out of reach of children.

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100kg of KAISO 50WG are subject to signage, and more

than 100kg require emergency response plans.

Always read the label and any attached leaflet before use. **Other Information** 

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409

Management of Agrichemicals and the HSNO Regulations.

### **Section 8 - Exposure Controls and Personal Protection**

Occupational **Exposure Limits** (OEL)

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

The NZ MBIE has set WES for the following components:

WES TWA for Perlite =  $10 \text{mg/m}^3$ 

WES TWA for Talc = 2mg/m<sup>3</sup> (respirable dust)





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Handle in well ventilated areas, generally natural ventilation is adequate. **Appropriate** 

Local exhaust ventilation may be required in confined spaces. **Engineering** 

**Controls** 

When opening the container, preparing spray and using the prepared spray wear **Personal Protective** dust mask, cotton **Equipment** 

safety goggles, waterproof gloves, washable hat, overalls buttoned to the neck and wrist, and boots.

Do not eat, drink or smoke while using. **Hygiene Measures** 

Remove protective clothing and wash hands and face thoroughly before meals

and after work. Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

**Form** Solid

Tan granule. **Appearance** Acid-like odour. Odour

Decomposition

Information is not available.

**Temperature** 

Disperses in water. Solubility in Water

Solubility of active ingredient lambda-cyhalothrin is 0.005mg/L @ pH6.5,

4.0 pН

2 x 10^-4 mPa @ 20°C, est. for active ingredient lambda-cyhalothrin. Vapour Pressure

**Vapour Density** 

Information is not available.

(Air=1)

Information is not available. **Odour Threshold** 

Partition Coefficient: Kow Log P = 7 @ 20°C for active ingredient lambda-cyhalothrin.

n-octanol/water

0.577g/ml (tapped) **Density** 

F.p. = 83°C (tech.) for active ingredient lambda-cyhalothrin. Flash Point

Non-combustible. **Flammability** 

**Auto-ignition** Information is not available.

**Temperature** 

Flammable Limits -Information is not available.

Lower

Flammable Limits -Information is not available.

Upper

Does not boil at atmospheric pressure for active ingredient **Initial Boiling Point** 

lambda-cyhalothrin. and Boiling Range

Information is not available. Kinematic Viscosity Information is not available. **Particle** 

Characteristics

S.g./density 1.33g/mL ( $25^{\circ}C$ ) for active ingredient lambda-cyhalothrin. **Relative Density** 

Melting/Freezing

**Point** 

M.p. = 49.2°C for active ingredient lambda-cyhalothrin.

(WG) Water Dispersible Granule Other Information

Section 10 - Stability and Reactivity

Stable under normal conditions of handling and storage. **Chemical Stability** 

**Conditions to Avoid** Excessive heat and fire.

**Incompatible** 

Strong oxidizing agents, alkalis and acids.

Materials





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Hazardous **Decomposition**  Under fire conditions may produce gases such as hydrogen chloride, hydrogen

fluoride, and oxides of carbon and nitrogen.

**Products** 

Hazardous polymerisation will not occur. Hazardous

**Polymerization** 

**Section 11 - Toxicological Information** 

No specific toxicological data is available for this product. Data below is Toxicology

for constituents. Information

LD50 (male rats) 79mg/kg, (female rats) 56mg/kg for active ingredient **Acute Toxicity - Oral** 

lambda-cyhalothrin.

Acute Toxicity -

LC50 (rat) 0.06mg/L/4h for active ingredient lambda-cyhalothrin.

Acute Toxicity -

Inhalation

LD50 (rats) 632-696mg/kg for active ingredient lambda-cyhalothrin.

Dermal

Possible symptoms of exposure include: Coughing and abdominal pain. Ingestion

Breathing in high concentrations of dusts or aerosols of this product may Inhalation

result in a burning sensation, cough, convulsions, laboured breathing,

shortness of breath or sore throat.

Exposure to KAISO 50WG can result in sensations of tingling especially in the Skin

face. The effects are transient and generally disappear in one to two days. Topical application of vitamin E cream is effective in reducing discomfort. The occurrence of 'facial sensations' is an indication of exposure. Under

these circumstances work practices should be reviewed.

Prolonged or repeated exposure may cause skin sensitisation.

The product is a skin irritant. Skin

Corrosion/Irritation

Serious Eve

Mild eye irritant.

Damage/Irritation

Prolonged and repeated skin contact may result in skin sensitisation. **Skin Sensitisation** 

Skin contact may produce skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12

hours.

Information is not available. Germ Cell

Mutagenicity

Information is not available. Carcinogenicity STOT - Single Information is not available.

**Exposure** 

May cause neurotoxicity and lung damage from repeated oral or inhalation STOT - Repeated

exposure at high doses. Exposure

Information is not available. **Aspiration Hazard** 

**Section 12 - Ecological Information** 

Lambda cyhalothrin is rapidly degraded in soil; TD50 (microbial degradation) = Persistence and

23 - 92 days, TD50 (field soil) = 6 - 40 days. Degradability

Strongly adsorbed to soil and sediment organic matter, Koc = 330,000.

**Mobility** Information is not available.

Bioaccumulative

Acute Toxicity -**Daphnia** 

**Potential** 

Information is not available.

LC50 (96hr) bluegill sunfish =  $0.21\mu g/L$  for active ingredient **Acute Toxicity - Fish** 

lambda-cyhalothrin. LC50 (96hr) rainbow trout = 0.36µg/L for active ingredientlambda-cyhalothrin.

Intrinsic toxicity to aquatic organisms is greatly reduced by rapid loss from the water by adsorption and dgradation: EC50 (72hr) in water =  $0.26\mu g/L$  for

active ingredientlambda-cyhalothrin.

ErC50 (96hr) for Selenastrum capricornutum = >1,000μg/L for active ingredient **Acute Toxicity -**

lambda-cyhalothrin. Algae





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Birds: LD50 for mallard duck = >3,950mg/kg for active ingredient Acute Toxicity -

lambda-cyhalothrin. Other Organisms

Bees: LD50 (oral) 909ng/bee; (contact) 38ng/bee for active ingredient

lambda-cyhalothrin.

Worms: LC50 for Eisenia foetida = >1,000mg/kg soil for active ingredient

lambda-cyhalothrin.

**Section 13 - Disposal Considerations** 

Dispose of product only by using according to the label, or at an approved **Product Disposal** 

landfill.

**Container Disposal** Triple rinse empty container and add rinsate to spray tank.

> container. Otherwise crush and bury in a suitable landfill.

**Section 14 - Transport Information** 

It is good practice not to transport agricultural chemical products with **Transport** 

food, food related materials and animal feedstuffs. Information

**UN Number** 

**Proper Shipping** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (lambda-cyhalothrin)

Name 9 **Hazard Class Hazchem Code** 2Z

**Packaging Method** 

**Packing Group** TTT **EPG Number** 

**IERG Number** 47

**IMO** Marine

Environmentally Hazardous Substance mark required. Yes.

**Pollutant** 

IMDG EMS F-A, S-F

Do not carry more than 3kg of KAISO 50WG on a passenger service vehicle. Other Information

Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional

Refer NZS5433 sea segregation for details. segregation.

**Section 15 - Regulatory Information** 

National and or International

Registered pursuant to the ACVM Act 1997, No. P8819 See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval Code HSR100829 Regulatory

Information

See www.epa.govt.nz for approval controls.

Packaging and

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING Labelling

Section 16 - Any Other Relevant Information

Date of preparation or last revision of

May 2019.

SDS

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions

5 yearly review carried out. Various changes and updates made to the document

to comply with GHS7. Highlighted

...End Of MSDS...

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