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Infosafe No™ 3NUNG Issue Date : May 2019 ISSUED by NUFARMNZ

Product Name KAISO® 50WG

1. Identification

GHS Product

KAISO® 50WG

Identifier

01759 **Product Code**

Synthetic pyrethroid insecticide **Product Type**

Nufarm NZ **Company Name**

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand

Telephone/Fax

Tel: 0-9-270 4150

Number

Emergency phone

number

0800 651 911

nzinfo@nufarm.com Email

Recommended use of the chemical and

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 restrictions on use swards, pumpkins, sugar beet, sweetcorn, tomatoes, vegetables 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.

2. Hazard Identification

Other Information

6.1D acute toxicant, 6.3B skin irritant, 6.4A eye irritant, 6.9B organ toxicant, 9.1A aquatic toxicant, 9.3B terrestrial vertebrate toxicant, 9.4A

terrestrial invertebrate toxicant

TOXICITY

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin. May case skin and eye irritation. May cause neurotoxicity and lung damage

from repreated oral or inhalation exposure at high doses.

ECOTOXIC

Very toxic to aquatic organisms with long-lasting effects.

Toxic to terrestrial vertebrates.

Very toxic to terrestrial invertebrates.

3. Composition/information on ingredients

Chemical Characterization Solid

Ingredients

Name	CAS	Proportion
Lambda- cyhalothrin technical	91465-08-6	50 g/kg
Ingredients determined to be non-hazardous	-	30-60%w/w
Perlite	93763-70-3	30-60%w/w

4. First-aid measures

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

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

attention.

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

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

Seek medical assistance immediately.

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

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

766). Seek medical assistance immediately.

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

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

If a large area is affected seek medical assistance.





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Eye contact 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.

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

eyewash facility and safety shower.

Treat symptomatically. Advice to Doctor

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.

5. Fire-fighting measures

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

extinguishing media

Hazards from If involved in a fire, it may emit hydrogen chloride, hydrogen fluoride and oxides of carbon and nitrogen. Combustion

Products

Special Protective Full protective clothing and self-contained breathing apparatus.

Equipment for fire

fighters

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

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

Hazchem Code

Location Certificate: Not applicable Other Information

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

6. Accidental release measures

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

solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. 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.

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

Environmental **Precautions**

Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling

Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved handler when it is applied in a wide dispersive manner, or used by a

commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3kg or more is applied within 24 hours.

Do not apply when bees are actively foraging. Avoid direct application to bee hives.

Do not apply onto or into water.

Conditions for safe storage, including any incompatabilities 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.

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

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.

8. Exposure controls/personal protection





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

exposure limit values this product.

The NZ MBIE has set WES for the following components:

WES TWA for Perlite = 10mg/m3

WES TWA for Talc = $2mg/m^3$ (respirable dust)

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** safety goggles, waterproof gloves, washable hat, Equipment

overalls buttoned to the neck and wrist, and boots.

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

Remove protective clothing and wash hands and face thoroughly before meals

and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Solid Form

Appearance Tan granule Acid-like odour Odour Disperses in water. Solubility in Water

pН 4.0

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

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

n-octanol/water

0.577g/ml (tapped) Density Non-combustible **Flammability**

(WG) Water Dispersible Granule Other Information

10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Excessive heat and fire. Conditions to Avoid

Incompatible

Strong oxidizing agents, alkalis and acids.

Hazardous

Materials Under fire conditions may produce gases such as hydrogen chloride, hydrogen

Decomposition

fluoride, and oxides of carbon and nitrogen.

Products Hazardous

Hazardous polymerisation will not occur.

Polymerization

11. Toxicological Information

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

for constituents. Information

Acute Toxicity - Oral LD50 (rat) 56 mg/kg for lambda-cyhalothrin LD50 (mouse) 20mg/kg for lambda-cyhalothrin LD50 (rat) 632 mg/kg for lambda-cyhalothrin

Acute Toxicity -Dermal

LC50 (rat) 0.06mg/L/4h for lambda-cyhalothrin Acute Toxicity -

Inhalation

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.





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Eye Will irritate the eyes.

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.

Regular exposure may result in effects on the lungs and central nervous **Chronic Effects**

system.

Serious eye damage/irritation The product is an eye irritant.

Skin

The product is a skin irritant.

corrosion/irritation Other Information

The Australian Acceptable Daily Intake (ADI) for lambda-cyhalothrin for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of

Chemical Safety, 'ADI List', March 2013).

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.

Ecotoxicological data have not been determined specifically for this product. **Basis for Assessment**

LC50 (96hr) bluegill sunfish = $0.21\mu g/L$ for lambda-cyhalothrin LC50 (96hr) rainbow trout = $0.36\mu g/L$ for lambda-cyhalothrin Acute Toxicity - Fish

EC50 (48hr) daphnia = 0.36µg/L for lambda-cyhalothrin Acute Toxicity -

EC50 (48hr) Gammarus pulex Scud = 0.0068µg/L for lambda-cyhalothrin **Daphnia**

ErC50 (96hr) for Selenastrum capricornutum = >1,000µg/L for lambda-cyhalothrin Acute Toxicity -

Algae

LD50 for mallard duck = >3,950mg/kg for lambda-cyhalothrin Birds: Acute Toxicity -LD50 (oral) 38ng/bee; (contact) 909ng/bee for lambda-cyhalothrin Bees: Other Organisms LC50 for Eisenia foetida = >1,000mg/kg soil for lambda-cyhalothrin

13. Disposal considerations

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

landfill.

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

container. Otherwise crush and bury in a suitable landfill.

14. Transport information

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

food, food related materials and animal feedstuffs.

U.N. Number

UN proper shipping

name

Transport hazard

class(es)

Information

9

2Z **Hazchem Code**

Packaging Method III **Packing Group**

IERG Number 47

IMO Marine Pollutant

EPG Number

Environmentally Hazardous Substance mark required. Yes.

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (lambda-cyhalothrin, 5%)

segregation. Refer NZS5433 sea segregation for details.





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15. Regulatory information

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

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

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

TOXIC * ECOTOXIC - keep out of reach of children Packaging &

Labelling

NFPA/HMIS: 2-1-0 **Hazard Rating**

Systems

HARMFUL * ECOTOXIC - Keep out of reach of children **Hazard Category**

16. Other Information

September 2016 Date of preparation

or last revision of

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

Addition of new label claims. Revisions

Highlighted

Other Information Supersedes SDS issued September 2016.

...End Of MSDS...

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