

Safety Data Sheet

according to WHS Regulations

Printing date 05.03.2021

Revision: 05.03.2021

1 Identification

Product Name: GENFARM CLOTHI-I INSECTICIDE

Other Means of Identification: Mixture

APVMA Number: 89924

Recommended Use of the Chemical and Restriction on Use: Insecticide

Details of Manufacturer or Importer:

Nutrien Ag Solutions Limited
Level 5, Building A, 26 Talavera Road,
Macquarie Park, NSW 2113

Phone Number: (02) 9889 5400

Emergency telephone number: 1800 44 88 92

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

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

P330 Rinse mouth.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 210880-92-5	Clothianidin (ISO)	28.6%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Toxicity (Oral) 4, H302	

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Product Name: GENFARM CLOTHI-I INSECTICIDE

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CAS: 138261-41-3	Imidacloprid (ISO) ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302	19.1%
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Skin Sensitisation 1, H317	0.05 - 0.5%
CAS: 55965-84-9	Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) ⚠ Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 2, H310; Acute Toxicity (Inhalation) 2, H330; ⚠ Skin Corrosion/Irritation 1C, H314; Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sensitisation 1A, H317	0.0002 - 0.002%

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms persist.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms persist.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May be harmful if inhaled.

Skin Contact: May cause mild irritation.

Eye Contact: May cause mild irritation, redness and lachrymation.

Ingestion: Harmful if swallowed. May cause dizziness, nausea and abdominal cramps.

Medical Attention and Special Treatment: Treat symptomatically.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry sand or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides and sulphur oxides.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Prevent firefighting run off from entering drains or water courses.

Hazchem Code: +3Z

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear protective equipment. Keep unprotected persons away.

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Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable labelled container for disposal. For large spills, dike and pump off product. Clean contaminated surface thoroughly with water and detergents.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mist. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

Conditions for Safe Storage:

Store in a dry, cool, well-ventilated area out of direct sunlight. Keep in the original container tightly closed when not in use. Protect from extreme temperatures. Keep away from food, drink, feed, strong acids, strong bases and strong oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Use elbow-length chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses with side-shields for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Red
Odour:	Like bitter almonds
Odour Threshold:	No information available
pH-Value at 20 °C:	~ 5 - 7 (1% deionised water)

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Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable
Ignition Temperature	375°C
Auto-ignition Temperature:	No information available
Decomposition Temperature:	Product will not decompose under normal conditions of use
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density at 20 °C:	1.26 g/cm ³
Relative Density at 20 °C:	1.266 (4 hPa)
Vapour Density:	Not applicable
Evaporation Rate:	No information available
Solubility in Water:	Dispersible (20 °C)
Partition Coefficient (n-octanol/water):	Clothianidin (25 °C): 0.7 log Pow Imidacloprid (20°C): 0.57 log Pow
Viscosity:	Dynamic Viscosity: 307.9 mPa.s (20 °C, 20 1/s) 108.4 mPa.s (20 °C, 100 1/s) 243.6 mPa.s (40 °C, 20 1/s) 80.81 mPa.s (40 °C, 100 1/s)

10 Stability and Reactivity

Possibility of Hazardous Reactions: No known hazardous reactions.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Direct sunlight and extreme temperatures.

Incompatible Materials: Food, drink, feed, strong acids, strong bases and strong oxidising agents.

Hazardous Decomposition Products:

Hazardous combustion products include carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides and sulphur oxides.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:

CAS: 210880-92-5 Clothianidin (ISO)

Oral	LD50	500.01 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalation	LC50/4 h	>5,538 mg/l (rat)

CAS: 138261-41-3 Imidacloprid (ISO)

Oral	LD50	131 mg/kg (mice) 450 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1,020 mg/kg (rat)
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CAS: 55965-84-9 Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2Hisothiazol-3-one (3:1)		
Oral	LD50	67 mg/kg (rat)
Inhalation	LC50/4 h	0.17 mg/l (rat)

Acute Health Effects**Inhalation:** May be harmful if inhaled.**Skin:** May cause mild irritation.**Eye:** May cause mild irritation, redness and lachrymation.**Ingestion:** Harmful if swallowed. May cause dizziness, nausea and abdominal cramps.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Sensitisation possible through skin contact.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for Clothianidin for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the LOAEL of 9.7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian Acceptable Daily Intake (ADI) for Imidacloprid for a human is 0.06 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 6 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2020).

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

CAS: 210880-92-5 Clothianidin (ISO)	
EC50/48 h	>119 mg/l (daphnia)
LC50/96 h	>104.2 mg/l (rainbow trout)
CAS: 138261-41-3 Imidacloprid (ISO)	
EC50/48 h	85 mg/l (daphnia)
LC50/96 h	211-280 mg/l (fish)

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CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50/48 h	3.7 mg/l (daphnia)
EC50/72 h	0.37 mg/l (algae)
LC50/96 h	0.169 ppm (rainbow trout)
LC50/48 h	>10 mg/l (daphnia)
CAS: 55965-84-9 Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2Hisothiazol-3-one (3:1)	
EC50/48 h	0.12 mg/l (daphnia)
EC50/72 h	0.048 mg/l (green algae)
EC50/3 h	7.92 mg/l (activated sludge inhibition)
LC50/96 h	0.32 mg/l (bluegill)
	0.22 mg/l (rainbow trout)

Persistence and Degradability: A part of the components are not readily biodegradable.

Bioaccumulative Potential: Imidacloprid does not accumulate in organisms.

Mobility in Soil: Mobile when released into soil.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers:

Dispose according to applicable local and state government regulations. Handle contaminated packaging in the same manner as the product.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).
ADG IMDG, IATA	Not regulated UN3082
Proper Shipping Name ADG IMDG	Not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clothianidin (ISO), Imidacloprid (ISO)), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Clothianidin (ISO), Imidacloprid (ISO))
Dangerous Goods Class ADG Class:	Not regulated
Subsidiary Risk: IMDG Class:	9 Miscellaneous dangerous substances and articles.
Packing Group: ADG IMDG, IATA	Not regulated III

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Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-A,S-F
Hazchem Code:	•3Z
Special Provisions:	274, 331, 335, 375, AU01
Limited Quantities:	5 L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	PP1
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed except one which are trade secret.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

Australia: Priority Existing Chemicals

None of the ingredients is listed.

16 Other Information

Date of Preparation or Last Revision: 05.03.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 3: Acute toxicity - oral - Category 3

Acute Toxicity (Oral) 4: Acute toxicity - oral - Category 4

Acute Toxicity (Dermal) 2: Acute toxicity - dermal - Category 2

Skin Corrosion/Irritation 1C: Skin corrosion/irritation - Category 1C

Skin Corrosion/Irritation 2: Skin corrosion/irritation - Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation - Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Skin Sensitisation 1A: Skin sensitisation, Hazard Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions makes no representation of the accuracy or comprehensiveness of

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