



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 20.07.2021

Revision: 20.07.2021

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: 4FARMERS SIMAZINE 900 WDG HERBICIDE**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide**Details of Manufacturer or Importer:**4Farmers Pty Ltd
70 McDowell Street
Welshpool WA 6106**Phone Number:** +61 8 9356 3446**Emergency telephone number:** National Poison Information Centre: 13 11 26

2. HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

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



health hazard

Carc. 2 H351 Suspected of causing cancer.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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

Signal Word Warning**Hazard Statements**

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

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

P273 Avoid release to the environment.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P391 Collect spillage.

P405 Store locked up.

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:**

122-34-9	Simazine (ISO) Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	90%
14807-96-6	Talc (Mg3H2(SiO3)4)	<50%

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4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for at least 15 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. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor:

Establish a patent airway with suction where necessary.

Watch for signs of respiratory insufficiency and assist ventilation as necessary.

Administer oxygen by non-rebreather mask at 10 to 15 L/min.

Treat symptomatically.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray or fog, foam and dry chemical powder.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen, hydrogen chloride, phosgene and silicone dioxide.

Combustible solid.

Avoid generating dust. Clouds of dust in a confined or unventilated space may form an explosive mixture with air, and any source of ignition, flame or spark, will cause fire or explosion.

Contamination with oxidising agents such as nitrates, oxidising acids, chlorine bleaches or pool bleach may cause ignition.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved dust/particulate respirator and full protective equipment. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

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 sweep or vacuum granules and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

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

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other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Store only in original container, tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and hot surfaces. Keep away from strong oxidising agents.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:**14807-96-6 Talc (Mg₃H₂(SiO₃)₄)**NES | TWA: 2.5 mg/m³**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of aerosols below occupational exposure standards.

Respiratory Protection:

Use a Safe Work Australia approved particle (dust) respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, 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:

Elbow-length PVC, nitrile rubber or butyl rubber gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:**Form:** Granules**Colour:** Light tan**Odour:** Odourless**Odour Threshold:** No information available**pH-Value:** Not applicable.**Melting point/Melting range:** 25-227 °C (simazine technical)**Initial Boiling Point/Boiling Range:** Not applicable**Flash Point:** Not applicable**Flammability:** Combustible solid**Auto-ignition Temperature:** Not applicable**Decomposition Temperature:** No information available**Explosion Limits:****Lower:** Not applicable**Upper:** Not applicable**Vapour Pressure:** Not applicable.**Relative Density:** No information available**Vapour Density:** Not applicable.**Evaporation Rate:** Not applicable**Solubility in Water:** Partly miscible. Disperses in water.

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10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

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

Conditions to Avoid: Heat, sparks, open flames, hot surfaces and direct sunlight.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products:

Oxides of carbon and nitrogen, hydrogen chloride, phosgene and silicone dioxide.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

122-34-9 Simazine (ISO)

Oral	LD ₅₀	971 mg/kg (rat)
Dermal	LD ₅₀	>8160 mg/kg (rabbit)
Inhalation	LC ₅₀ /1 h	9800 mg/m ³ (rat)

Acute Health Effects

Inhalation: Inhalation of dust may cause respiratory irritation.

Skin: No adverse health effects expected.

Eye: May cause eye irritation.

Ingestion: The concentrate is of low toxicity if ingested.

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

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Talc-based body powder (perineal use) is classified by IARC as Group 2B - Possibly carcinogenic to humans. Suspected of causing cancer.

Simazine is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Simazine is classified by Safe Work Australia as Carcinogen Category 3.

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:

After prolonged or repeated exposure simazine may cause skin irritation and contact dermatitis (nonallergic) characterised by skin redness (erythema) and swelling epidermis.

Repeated or prolonged exposure eye exposure to simazine may cause conjunctivitis.

Long term exposure to talc may show wheezing, weakness, productive cough, limited chest expansion, scattered rales, cyanosis.

Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a nonallergenic condition known as reactive airways dysfunction syndrome (RADS) which can

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occur following exposure to high levels of highly irritating compound.

Existing Conditions Aggravated by Exposure: No information available

Additional toxicological information:

The Australian Acceptable Daily Intake (ADI) for simazine for a human is 0.5 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 50 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', June 2014).

The overuse of talc in nursing infants has resulted in pulmonary oedema, pneumonia and death within hours of inhaling talcum powder. The powder dries the mucous membranes of the bronchioles, disrupts pulmonary clearance, clogs smaller airways. Victims display wheezing, rapid or difficult breathing, increased pulse, cyanosis, fever.

12 . ECOLOGICAL INFORMATION

Ecotoxicity: Simazine is not toxic to birds or bees.

Aquatic toxicity:

122-34-9 Simazine (ISO)

EC₅₀/72 h | 0.04 mg/l (scenedesmus subspicatus)

LC₅₀/48 h | >100 mg/l (daphnia)

LC₅₀/96 h | >100 mg/l (rainbow trout)

Very toxic to aquatic life with long lasting effects.

Persistence and Degradability:

Simazine has high water/soil persistence. Half life in soil ranges from 27 to 102 days.

Bioaccumulative Potential: Simazine has a low bioaccumulation potential.

Mobility in Soil: Simazine has medium mobility.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

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

14 . TRANSPORT INFORMATION

UN Number

ADG Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail when being transported in IBCs or other receptacles < 500 L (kg), (Special Provision AU01).

IMDG, IATA UN3077

Proper Shipping Name

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Dangerous Goods Class

IMDG Class: 9 Miscellaneous dangerous substances and articles.

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Packing Group:**IMDG, IATA** III**Marine pollutant:** Yes

Symbol (fish and tree)

EMS Number: F-A,S-F**15 . REGULATORY INFORMATION****Australian Inventory of Chemical Substances:**

122-34-9 Simazine (ISO)

14807-96-6 Talc ($Mg_3H_2(SiO_3)_4$)**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

16 . OTHER INFORMATION**Creation Date:** 20.07.2021**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC₅₀: Lethal concentration, 50 percentLD₅₀: 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)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.