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SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifiers

Product name : Sanonda Herbicide Atrazine 900 WG
Active ingredient : Atrazine
Product code : 7099

1.2. Other means of identification

IUPAC name: 6-chloro-*N*²-ethyl-*N*⁴-isopropyl-1,3,5-triazine-2,4-diamine

1.3. Recommended use of the chemical and restrictions on use

For selective annual grass and broadleaf weed control as per the Directions for Use Table.

1.4. Details of the supplier of the safety data sheet

Sanonda (Australia) Pty Ltd (ABN 23 059 813 973)

Address: Suite 822, St Kilda Road Towers, No. 1 Queens Road, Melbourne,
Victoria 3004 Australia.

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1.4. Emergency telephone number

Emergency number : +61 3 9863 8081

SECTION 2: Hazards identification

2.1. GHS classification of the substance or mixture

Skin corrosion/irritation : Category 3
Eye damage/irritation : Category 2B
Skin sensitization : Category 1
STOT Repeated Exposure : Category 2
Hazardous to the aquatic environment (acute) : Category 1
Hazardous to the aquatic environment (chronic) : Category 4

2.2. Label elements

Signal word : Warning



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Hazard statements (CLP)

:

H316 - Causes mild skin irritation

H320 - Causes eye irritation

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life

H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements

: P260 – Do not breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves, clothing, eye and face protection.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P391 - Collect spillage.

P321 - Specific treatment (see Safety Directions on product label).

P363 - Wash contaminated clothing before reuse.

P314 - Get medical advice/attention if you feel unwell.

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

Hazard pictogram

: Health Hazard Exclamation mark Environment





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SECTION 3: Composition/information on ingredients

Identity of chemical ingredients	CAS	Concentration (% , w/w)
Atrazine	1912-24-9	90
Other non-hazardous ingredients	-	Balance

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

If inhaled

Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact

Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

If symptoms persist, call a physician.

In case of eye contact

Flush eyes with water as a precaution.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed

Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Advice to Doctor

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

4.2. Most important symptoms and effects, both acute and delayed



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Irritant effects.

Sensitising effects.

Symptoms may be delayed.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Call a physician or poison control center immediately

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

5.3. Special protective equipment and precautions for fire fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Avoid dust formation.

Avoid breathing dust.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Avoid formation of respirable particles.

Avoid exceeding the given occupational exposure limits (see section 8).

For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters-exposure standards, biological monitoring

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Atrazine	1912-24-9	TWA	5 mg/m ³	AU OEL
	Further information: Sensitiser			
		TWA (Inhalable fraction)	2 mg/m ³	ACGIH

8.2. Appropriate engineering controls

Ensure adequate ventilation of the working area.

8.3. Personal Protection Equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.

Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

Hand protection:

Remarks:

Polyvinyl alcohol or nitrile- butyl-rubber gloves Before removing gloves clean them with soap and water.

Eye protection:

Eye wash bottle with pure water.

Tightly fitting safety goggles.



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Skin and body protection:

Dust impervious protective suit.

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|--|---|
| a) Appearance | : White granulated solid. |
| b) Odour | : Mild odour. |
| c) Melting point/freezing point | : No specific data. Solid at normal temperatures.
Atrazine melts about 176°C |
| d) Initial boiling point and boiling range | : Not available. Atrazine boils at 205°C at 100kPa |
| e) Vapour pressure | : 3.85×10^{-2} mPa at 25°C. |
| f) Relative density | : 0.7906 (20 °C). |
| g) Flammability | : Not flammable. |
| h) Solubility in water | : Wettable in water. |

9.2. Other information

Suspensibility: 70% min.

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

10.2. Chemical stability

Product is considered stable in ambient conditions for a period of at least 2 years after manufacture.

10.3. Incompatible materials and possible hazardous reactions

Strong acids, strong bases, strong oxidising agents.

This product will not undergo polymerisation reactions.

10.4. Conditions to avoid

Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.

10.5. Hazardous decomposition products



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Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly.

SECTION 11: Toxicological information

11.1. Information on routes of exposure and symptoms related to exposure

Swallowed: Low toxicity.

Eye: The granules can cause physical discomfort if in the eye. May cause irritation, stinging, reddening and watering of the eyes.

Skin: This product can be irritating to the skin. Classified as a potential sensitiser.

Inhaled: Inhalation of mists or sprays may produce respiratory irritation. Can cause irritation of the mucous membranes.

11.2. Immediate, delayed and chronic health effects from exposure

Acute toxicity

LD ₅₀ oral rats	> 2000 mg/kg
LD ₅₀ dermal rats	> 2000 mg/kg
LC ₅₀ inhalation rats, rabbits, guinea pigs or cats	Rat (4hr) > 17.5 mg/L (air)
Eye irritation	Irritant to eyes
Skin irritation	Mild irritant to skin
Skin sensitization	Classified as a potential sensitiser

Germ cell mutagenicity

The weight of evidence from more than 50 studies indicates that atrazine is not mutagenic.

Carcinogenicity

Atrazine technical has been extensively tested on laboratory mammals and in test tube systems. After long-term administration (close to two years of continuous feeding) a slight increase in the incidence of mammary tumours was reported in one species (rat), one sex (female) and one strain (Sprague-Dawley) in one study at higher doses. A 1992 study using Sprague-Dawley rats showed no significant difference between rats fed normal diet and those fed on



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a diet containing atrazine with regard to the incidence of tumours. Recent studies with Fisher rat strain have shown no evidence of tumour producing potential. The relevance of the mammary tumour finding to humans is doubted as epidemiological studies of workers involved in the production of atrazine for up to 30 years have shown a class 3, not classifiable as to carcinogenicity to humans.

Reproductive toxicity

Dietary doses of atrazine given to rats on days 3, 6 and 9 of gestation up to about 50 mg/kg/day caused no adverse reproductive effects.

Teratogenic toxicity

Atrazine does not appear to be teratogenic.

11.3. Exposure Levels/Chronic effects

Some 40% of rats receiving oral doses of 20 mg/kg/day for 6 months died with signs of respiratory distress and paralysis of the limbs. Structural and chemical changes in the brain, heart, liver, lungs, kidney, ovaries, and endocrine organs were observed. Rats fed 5 or 25 mg/kg/day of atrazine for 6 months exhibited growth retardation. In a 2-year study with dogs, 7.5 mg/kg/day caused decreased food intake and increased heart and liver weights. At 75 mg/kg/day, there were decreases in food intake and body weight gain, increased adrenal weight, lowered blood cell counts, and occasional tremors or stiffness in the rear limbs.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

LC ₅₀ fish	LC ₅₀ (96 h) for atrazine in rainbow trout 11.0, guppies 4.3 mg/l.
LC ₅₀ daphnia	EC ₅₀ (48 h) \geq 29 for atrazine.
EC ₅₀ algae	EC ₅₀ (72 h) for atrazine in <i>Scenedesmus subspicatus</i> 0.043 mg/l, EC ₅₀ (96 h) for atrazine in <i>Pseudokirchneriella subcapitata</i> 0.01 mg/l.
Other Organisms	Birds Acute oral LD ₅₀ for atrazine in bobwhite quail 940, for mallard ducks and Japanese quail >2000 mg/kg. Dietary LC ₅₀ (8 d) for Japanese quail >5000, mallard duck >1563 mg/kg. Bees LD ₅₀ (oral) >97 µg/bee; (contact) >100 µg/bee. Worms LC ₅₀ (14 d) for Eisenia



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	foetida 78 mg/kg soil.
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12.2. Persistence and degradability

Breakdown in soil and groundwater:

Atrazine is highly persistent in soil. Chemical hydrolysis, followed by degradation by soil microorganisms, accounts for most of the breakdown of atrazine. Hydrolysis is rapid in acidic or basic environments, but is slower at neutral pHs. Addition of organic material increases the rate of hydrolysis.

Breakdown in water:

Atrazine is moderately soluble in water. Chemical hydrolysis, followed by biodegradation, may be the most important route of disappearance from aquatic environments. Hydrolysis is rapid under acidic or basic conditions, but is slower at neutral pHs. Atrazine is not expected to strongly adsorb to sediments.

Breakdown in vegetation:

Atrazine is absorbed by plants mainly through the roots, but also through the foliage. Once absorbed, it is translocated upward and accumulates in the growing tips and the new leaves of the plant. In susceptible plant species, atrazine inhibits photosynthesis. In tolerant plants, it is metabolized.

12.3. Bioaccumulative potential

Atrazine has a low level of bioaccumulation in fish.

12.4. Mobility in soil

Slightly mobile in soils.

12.5. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Safe handling and disposal methods

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2. Disposal of any contaminated packaging

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

13.3. Environmental regulations



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drumMUSTER is the national program for the collection and recycling of empty, cleaned, non-returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SECTION 14: Transport information

14.1. UN number

UN-No. : UN3077

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Contains atrazine).

14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) :



14.4. Packaging group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :



IMDG Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

Wash hands and exposed skin thoroughly after handling.

Wear protective gloves, clothing, eye and face protection.



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14.7. Hazchem Code

2Z

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classified as a hazardous substance according to criteria of Safe Work Australia. (Xn - harmful).

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison. This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. APVMA Approval No.: 64289/48873.

Product is not classified as a Dangerous Good according to the ADG Code (7th Ed) in containers less than 3000 kg.

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

15.2. Poisons Schedule number

This product is a Schedule 5 Poison and must be stored, transported and sold in accordance with the relevant Health Department regulations.

SECTION 16. OTHER INFORMATION

16.1. Date of preparation or last revision of SDS

Revised 12/02/2016

Revisions Highlighted: The SDS was reviewed to include GHS requirements.

16.2. Contact Point

Sanonda (Australia) Pty Ltd
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16.3. Key/legend to abbreviations and acronyms used in the SDS

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail)

IMDG Code: International Maritime Dangerous Goods



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This SDS contains only safety-related information. For other data see product literature.

All due care and skill, so far as practicable, has been applied in the preparation and collation of the information in this SDS. Each user of the Product named in this SDS should read and consider the information contained in this SDS in the context of how the Product will be stored, handled, used or applied in the workplace. In all circumstances, it is the responsibility of the user of the Product to ensure that they have sought out the relevant safety data appropriate to their particular situation. Nothing contained in this SDS shall be construed as a representation or recommendation to the user about the suitability or otherwise of the Product named in this SDS for the user's particular situation. If the user requires any clarification or further information, the user should contact Sanonda (Australia) Pty Ltd.

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Please read all labels carefully before using product.