



1. Product identifier & identity for the chemical

Product Identifier	Choice Atrazine 900 WG Herbicide
Active Constituent	Atrazine – Chemical type: Triazine
Other means of Identification	Agricultural herbicide. Grow Choice product code number: 813 AVPMA registered number: 63858
Recommended use of the chemical and restrictions on due	Agricultural herbicide. Herbicide for the control of annual weeds in sorghum, maize, sweetcorn, saccaline, broom millet, sugarcane and non-crop situations. Refer to the product label for full use instructions.
Suppliers name, address and phone number:	Grow Choice Pty Ltd 113 Fitzroy Street TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922 Email: rfagan@growchoice.com.au
Emergency phone number:	In Case Of Emergency Dial 000
Poisons Information Centre	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 http://www.chw.edu.au/poisons/contact.htm

2. Hazard Identification

This product is classified as: **Hazardous** according to the criteria of SWA, GHS Australia.
Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to Special Provision AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as **Dangerous (Class 9 Environmentally Hazardous)** by IATA and IMDG respectively.

Classification of the hazardous chemical	Specific target organ toxicity (repeated exposure) - category 2 Skin sensitisation - category 1 Hazardous to the aquatic environment (acute) - category 1 Hazardous to the aquatic environment (chronic) - category 1
GHS symbol	Health Hazard Environment



Signal word	Warning
General Precautionary Statements.	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
Hazard Statements	May cause damage to organs through prolonged or repeated exposure May cause an allergic skin reaction Very toxic to aquatic life with long lasting effects
Prevention Statements	P260: Do not breathe dust/mist/ vapours/spray from product. Manufacturer/supplier or the competent authority to specify applicable conditions.
Response Statements	P314: Get medical advice/attention if you feel unwell.
Storage Statements	
Disposal Statements	P501: Dispose of contents/container in accordance with state and local Regulations (to be specified).

3. Composition/information on ingredients

Chemical ingredients: CAS number and other unique identifiers: Concentration of ingredients:	Component	CAS No	Proportion (g/L)
	Atrazine (technical grade)		> 90
	To give atrazine	1912-24-9	90
	Other ingredients determined not to be hazardous		To 100

4. First Aid Measures

Swallow	If swallowed, do not induce vomiting. Rinse mouth out with water if patient is conscious. Seek urgent medical attention.
Eye:	If product gets in eyes, remove contact lenses if wearing and wash it out immediately with water for several minutes. Seek medical attention.
Skin:	Remove contaminated clothing and wash affected areas thoroughly with soap and water. Seek medical attention if symptoms persist.
Inhaled	Move affected person to fresh air and keep at rest until recovered. If inhaled remove to fresh air and keep at rest. Obtain medical advice if at all worried. If not breathing give artificial respiration & get urgent medical attention.
Medical Attention and Special Treatment	In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist with a copy of this SDS or chemical Label.

5. Fire Fighting Measures

Suitable extinguishing media	Choose extinguishing media to suit the burning material: water spray, carbon dioxide, dry chemical or alcohol resistance foam. Keep upwind from the smoke and flames.
Specific hazards arising from the chemical	If involved in a fire, it will emit toxic fumes of cyanides, hydrogen chloride and possibly carbon oxides.
Special protective equipment and precautions for fire fighters	Fire fighters should wear Safe Work Australia approved self-contained breathing apparatus (AS/NZS 1715/1716) and full protective equipment. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	In case of spillage it is important to take all steps necessary to: Wear goggles, half face-piece respirator with combined duct and vapour cartridge, full length clothing and elbow length chemical resistant PVC gloves (refer Section 8). Instruct and ensure all bystanders to keep away from and upwind of spill/leak. Avoid eye and skin contact; Do not breath dust; Ensure adequate ventilation.
Environmental precautions	Avoid contamination of waterways, drains and sewers.
Methods and materials for containment and cleaning up	Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand, clay or soil). Shovel the absorbed spill into drums. Final clean up with detergent or degreaser is recommended.

7. Handling and Storage

Precautions for safe handling	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear cotton overalls buttoned on the neck and wrist and a washable hat and elbow length chemical resistant gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Do not spray under high wind conditions.
Conditions for safe storage, including any incompatibilities:	Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. Store out of direct sunlight and extreme temperature.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring	Safe Work Australia has set the following exposure standard for atrazine : TLV (TWA) 5 mg/m3, STEL -. Safe Work Australia has set the following exposure standard for talc : TLV (TWA) 2.5 mg/m3, STEL -.
Appropriate engineering controls	Handle product in a well ventilated area, generally natural ventilation is adequate. If dusts are present, wear a class P1 dust mask.
Personal protective equipment (PPE)	When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles. When using the prepared spray cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination. Face and Eye Protection: Face shield or goggles. Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. Gloves: Elbow-length chemical resistant PVC gloves. Respiratory: If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn. Training as required by State or Local regulations should be adhered to for people who use pesticides in their job or business. Recommended to use Australian and New Zealand Standard PPE: Overalls AS 3765, Clothing for protection against Hazardous chemicals Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves) Goggles and face shield As/NZS 1337, Eye protectors for industrial applications. Footwear AS/NZS 2210, Occupational protective footwear Respirators AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices AS/NZS 1716, Respiratory Protective Devices

9. Physical and chemical properties (continued on page 3)

Appearance, form, colour and odour	Off-white granules with non specific odour.
pH (1% deion. Water);	Not available
Melting point	171 to 174
Boiling point	Not available
Flash point	Not available
Specific Gravity	Not available
Evaporation pressure	Not available

Flammability	Non-flammable
Vapour pressure	Not available
Behaviour in water	Suspensible
Relative density	Not available
Solubility in water	Not available
Vapour Pressure	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10. Stability and Reactivity

Chemical stability	Stable under normal conditions.
Conditions to avoid	Keep away from strong oxidising agents, may react violently
Incompatible materials and possible hazardous reactions	
Hazardous decomposition products	Hazardous polymerisation is not possible

11. Toxicological information

Information on routes of exposure and symptoms related to exposure	Irritation: Percutaneous rabbits: Open stimulation test, 38mg, mild irritation. Rabbit eyes: 6320µg, severe stimulation.
Immediate, delayed and chronic health effects from exposure	CHRONIC (Active ingredient) Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. After long-term administration (ie. Close to 2 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 more recent study (1992) using Sprague-Dawley rats showed no significant difference between rats fed normal diet and those fed on a diet containing atrazine with regard to the incidence of tumours. Recent studies with the Fischer 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 no evidence of health problems associated with atrazine exposure. Atrazine has been listed by IARC as a Class 3, not classifiable as to carcinogenicity to humans
Acute Toxicity – Oral	Acute Toxicity: LD50: 672 mg / kg (rat oral); 850 mg / kg (mice by mouth); 7500 mg / kg (rabbit percutaneous) are followed.
Acute Toxicity Dermal	LD50 (rat) 1869 - 3090 mg/kg for atrazine LD50 (mice) 1332 - 3992 mg/kg for atrazine
Acute Toxicity - Inhalation	LD50 (rat) >3100 mg/kg for atrazine LC50 (rat) (4hr) >5.8 mg/l for atrazine
Ingestion	Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.
Inhalation	Respiratory protection while spraying is recommended.
Eye	Some temporary irritation may be experienced.
Skin Sensitisation	May irritate the skin. May cause sensitisation by prolonged skin contact. May irritate the eyes. Prolonged and repeated skin contact may result in skin sensitisation. The weight of the evidence is that atrazine is not carcinogenic. Data indicates no reproductive effects. Data indicates no teratogenic effects. Not an eye irritant. Data indicates no mutagenic effects. Mild skin irritant.
Serious eye damage/irritation	The Australian Acceptable Daily Intake (ADI) for atrazine for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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).
Skin corrosion/irritation	
Data limitations	

12. Ecological information

Eco toxicity	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. This produce is a Marine pollutant.
Persistence and degradability	
Bio -accumulative potential	The following is data for the active ingredient, atrazine.
Mobility in soil	LC50 (96hr) for rainbow trout is 4.5 - 11.0 mg/l. LC50 (96hr) for bluegill sunfish is 16 mg/l. LC50 (96hr) for carp is 76 mg/l. LC50 (48hr) for daphnia is 6.9 mg/l for atrazine. EC50 (72hr) for Scenedesmus subspicatus 0.0432 mg/l. The following data is for the active ingredient, atrazine. Birds: Not toxic to birds. LD50 for mallard ducks is >2000 mg/kg LD50 for bobwhite quail is 940 mg/kg Bees: Not toxic to bees. LD50 >97 µg/bee.

13. Disposal considerations (continued on page 4)

Disposal of product	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
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For all multi-walled paper bags or foil lined paper bags.

KEEP OUT OF REACH OF CHILDREN. Store in the closed, original container in a dry, cool, well-ventilated area and out of direct sunlight. Shake bag contents until bag is empty. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the bags below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty bag and product should not be burnt. Discharge excess spray slurry onto absorbent ground or soil.

14. Transport information

It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.

Land

Considered **non dangerous** under the ADG 7th Edition.

Sea

IMDG Code

This product is classified as: Environmentally Hazardous Substance, Liquid, N.O.S by the IMDG (2015)

UN No:3077; Class:9; Packing Group: III; Special Provisions: 274 335, 966, 967, 969

Limited Quantities: 5 ; Excepted Quantities: E1; Emergency Schedule: F-A, S-F

Packing: Instructions: P001 LP02; Provisions: PP12

IBCs: Instructions: IBC08;

Tanks: Instructions: T1 BK1, BK2, BK3; Provisions: TP33

Stowage and Handling: Category A, SW23

15. Regulatory information

Poisons Schedule number

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) – Poison Schedule: 5

Atrazine is listed in the Australian Inventory of Chemical Substances (AICS).

16. Other information

Date of Review

This Safety Data Sheet (SDS) was completed 24 April 2015 and replaces Material Safety Data Sheet 17/6/10.

Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.

GHS: Globally Harmonised system of Classification and Labelling of chemicals

HSIS: Hazardous Substances Information System

NOHSC: National Occupational Health and Safety Commission

CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)

AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment

ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals

EMS Number:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code of Dangerous Goods

IATA: International Air Transport Association

End of SDS

DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the data hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof. Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local Government regulations.