



Safety Data Sheet




In accordance with Safe Work Australia

Effective Date: 30 May 2015

1. Product identifier & identity for the chemical

Product Name	CHLORSUN 750 Herbicide
Chemical name	CHLORSULFURON 750 g/kg
Product Code	751
APVMA Approval No.:	53902
Formulation type	Solid (powder granules)
Use	A selective herbicide for the control of Annual (Wimmera) Ryegrass and certain broadleaved weeds in Wheat, Barley, Oats, Cereal Rye and Triticale.
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 #	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

-  Classified as **NON HAZARDOUS** in accordance with the *Approved Criteria for Classifying Hazardous Substances* [NOHSC: 1008(2004) 3rd Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).
-  Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
-  Considered **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

GHS classification	Hazardous to the aquatic environment (acute) - category 1 Hazardous to the aquatic environment (chronic) - category 1
GHS symbol	Environment



Signal code and word	GHS09 Environmental
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
Precautionary Code and Statements Prevention	P262: Do not get in eyes, on skin, or on clothing. P281: Use personal protective equipment as required. P337: If eye irritation persists: seek medical attention.
Precautionary statement and response	P353: Rinse skin or shower with water. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.
Storage	P402+P404: Store in a dry place. Store in a closed container. P403+P235: Store in a well-ventilated place. Keep cool.
Disposal	P501: Dispose of contents and containers as specified on registered label and Section 13 of this SDS.

3. Composition/information on ingredients

Chemical ingredients:	Component	CAS No	Proportion (w/v)
CAS number and other unique identifiers:	Chlorsulfuron	64902-72-3	750 gm/Kg
Concentration of ingredients:	Other on hazardous ingredients		250 gm/Kg

4. First Aid Measures

General	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia and is available at all times. Have this SDS with you when you call.
Swallow	If product is swallowed or gets in mouth, do NOT induce vomiting ; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.
Eye:	If product gets in eyes, wash it out immediately with water for 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled	Move affected person to fresh air and keep at rest until recovered. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
First Aid	In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist.
Advice to doctor	No specific antidote exists. Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media	Flammable Limit in Air, % by volume: LEL 0.090g/L Extinguishing media are water spray, foam, carbon dioxide and dry chemical.
Specific hazards arising from the chemical	DO NOT contaminate any body of water by spraying, cleaning of equipment or disposal or waste. Cool tanker/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.
Special protective equipment and precautions for fire fighters	Wear self-contained breathing apparatus. Use water spray.
Other	Hazardous to aquatic environment. Stop fire water from entering drains or water bodies.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	In case of spillage it is important to take all steps necessary to: <ul style="list-style-type: none">• Avoid eye and skin contact;• Avoid contamination of waterways;• Keep all bystanders away;• Wear goggles, half face-piece respirator with combined duct and vapor cartridge, full length clothing and PVC gloves.
Environmental precautions	Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand or soil). Shovel the absorbed spill into drums
Methods and materials for containment and cleaning up	Review FIRE AND EXPLOSION HAZARDS and SAFELY PRECAUTIONS before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Dyke spill....prevent liquid from entering the sewers, waterways, or low areas. Shovel or sweep up. DO NOT flush with water. If spill area is on ground near trees or other valuable plants remove the top 50 mm of soil after initial cleanup. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State and local regulations.

7. Handling and Storage

Precautions for safe handling	Avoid contact with eyes and skin. DO NOT inhale spray mist. Wash hands after use. Store away from food and pet feed products..
Conditions for safe storage, including any incompatibilities:	Store in the closed, original container in a well ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Keep out of reach of children, unauthorised persons and animals.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring	No exposure standards established for formulated product. Chlorsulfuron: AEL 10mg/m3 (8 and 12 hr TWA).
Appropriate engineering controls	No special requirements. Product is used outdoors
Personal protective equipment (PPE):	The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715 Protective Gloves: AS 2161 Occupational Protective Clothing: AS/NZS 4501 set 2008 Industrial Eye Protection: AS1336 and AS/NZS 1337 Occupational Protective Footwear: AS/NZS2210 SWA Exposure Limits TWA (mg/m3) STEL (mg/m3) Avoid skin and eye contact. Avoid inhaling the vapor, or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
Requirements Concerning Training	Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

9. Physical and chemical properties

Appearance	Off-White-tan
Odor	Odorless
pH (1% deion. Water);	Solubility of chlorsulfuron is 7 g/L @ pH7
Melting point	174 - 178 °C (technical)
Flash point	No data available
Flammability	Combustible
Behavior in water	Disperses in water.
Viscosity	No data available
Surface tension	No data available
Corrosiveness	No data available
Combustibility	No data available
Explosive properties	No data available
Specific gravity	0.59

10. Stability and Reactivity

Reactivity	No data available
Chemical stability	Product is considered stable for a period of at least 2 years.
Conditions to avoid	Avoid exposure to heat and naked flame. Chemical Stability Hydrolyses at pH <7.
Incompatible materials and possible hazardous reactions	Keep away from strong oxidising agents. Hazardous polymerisation is not possible
Hazardous decomposition products	On burning will produce toxic and noxious vapors, including carbon oxides, nitrogen oxides, sulfur oxides, hydrogen chloride and phosgene.

11. Toxicological information

Toxicology Information	No data is available to confidently predict the effects of overexposure to humans, however based on animal studies , overexposure by inhalation, ingestion, or skin or eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision, or irritation of the upper respiratory passages. Administration of 0, 100, 500, and 2500 ppm Chlorsun 750 to male and female young adult dogs for 6 months produced a no-observable-effect level (NOEL) of 2500 ppm in the diet. No compound related changes in nutritional, clinical, biochemical, gross or histopathological observations were made. Administration of 0, 100, 500 and 2500 ppm Chlorsun 750 to male and female weaning rats for 2 years produced a NOEL of 100 ppm in the diet based on mild to moderate reduction in mean body weights and weight gains in male rats from the higher dose groups.
Symptoms related to exposure	Oncogenicity studies conducted with male and female mice by dietary administration of 0, 100, 500 and 5,000 ppm Chlorsun 750 for 2 years showed no compound-related behavioural, clinical, haematological, gross pathological, or histological abnormalities. Chlorsun 750 was not oncogenic at any level. The overall NOEL was 500 ppm as a body weight reduction occurred in the 5,000 ppm level. The dietary presence of Chlorsun 750 at 500 ppm had no adverse effect on the reproduction or lactation performance of young adult rates (3 generation, 2 litters per generation). Not teratogenic in rats at 2,500 ppm or up to 75 mg/kg in rabbits. Not mutagenic in Ames bacterial assay, Chinese Hamster Ovary mammalian cell assay, rat dominant lethal assay, in vitro cytogenetic assay, or DNA repair assay.
Numerical measure of toxicity	Possible symptoms of exposure include: nausea, vomiting and headache.
Inhalation	May cause irritation to the respiratory tract.
Ingestion	May irritate the skin.
Skin	The concentrate may cause severe irritation of the eyes unless washed off immediately.
Eye	No information available, no chronic effects expected.
Chronic Effects	The Australian Acceptable Daily Intake (ADI) for chlorsulfuron for a human is 0.05 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 5 mg/kg/day. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', 30 June 2014).
Other information	

12. Ecological information

Eco toxicity	Do not spray in high winds.
Persistence and degradability	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
Bio accumulative potential	Environmental Spray drift can cause damage, read the label for more information.
Mobility in soil	Not toxic to fish. LC50 (96hr) for rainbow trout is >250 mg/l for chlorsulfuron Acute Toxicity - Fish Acute Toxicity - LC50 (48hr) for daphnia is 370 mg/l for chlorsulfuron. Daphnia The following data is for the active ingredient, chlorsulfuron. Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail is >5000 mg/kg Not toxic to bees.

13. Disposal considerations

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®).
Disposal of Container	Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. 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.

14. Transport information (continued on page 4)

General 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 for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)
Sea and Air	Considered DANGEROUS for transport by sea and air in accordance with the IMDG Code 37-14

Substance: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(1) UN No: 3077

(2) PSN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(3) Class: 9

(4) Subsidiary Risks: -

(5) Packing Group: III

(6) Special Provisions: **274 335**
966 967 969

(7a) **Limited Quantities: 5 kg**

(7b) **Excepted Quantities: E1**

Flashpoint:

(15) Emergency Schedule: **F-A, S-F**

Instructions

Provisions

Packing

(8) **P002 LP02**

(9) **PP12**

IBCs

(10) **IBC08**

(11) **B3**

Tanks

(13) **T1 BK1 BK2 BK3**

(14) **TP33**

(16a) **Stowage and Handling**

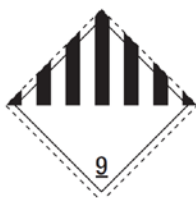
(16b) **Segregation**

Category A, SW23

(17) **Properties and Observations**

Labels/Marks/Signs:

For further information on the use of labels, marks and signs, see **part 5** of the IMDG Code.



15. Regulatory information

Poisons Schedule number

S5: CAUTION KEEP OUT OF REACH OF CHILDREN

Safety, health and environmental regulations

READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 53902

16. Other information

Date of Review

This Safety Data Sheet (SDS) was reviewed 30 May 2015 and replaces the Material Data Safety Sheet dated 02/08/08.

Date of Review

This Safety Data Sheet (SDS) was completed 30 May 2015

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)

STEL: Exposure standard - short term exposure limit.

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

ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals

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 date 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.