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SAFETY DATA SHEET

According to Safe Work Australia

Printing date 13.09.2020

Revision: 13.05.2021

Product Name: 4FARMERS CLOPYRALID 750 SG HERBICIDE

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: 4FARMERS CLOPYRALID 750 SG HERBICIDE

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Agricultural herbicide

Details of Manufacturer or Importer:

4Farmers Australia 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:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

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). 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/IMSBC respectively. See details below and in Section 14 of this SDS.

The product is not classified according to the Globally Harmonised System (GHS).



Signal Word Danger

Serious eye damage

Hazard Statements

H318 Causes serious eye damage

PREVENTION

P102: Keep out of reach of children.

P261: Avoid breathing dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling

P280: Wear protective gloves, protective clothing and eye or face protection.

RESPONSE

P310: Immediately call a POISON CENTRE or doctor/physician.

P335: Brush off loose particles from skin.

P363: Wash contaminated clothing before reuse.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P391: Collect spillage.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

STORAGE

P410: Protect from sunlight.

DISPOSAL:

P501: Dispose of contents and containers as specified on the registered label.



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Emergency Overview

Physical Description & colour: Off-white granulated solid

Odour: No odour

Major Health Hazards: may cause serious damage to eyes.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: No reportable hazardous substances or complex substances.

Hazardous Components: Void

Non Hazardous Components:

58509-83-4	Clopyralid, potassium salt	75%
Secret	Other non-hazardous ingredients	10%

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, hold eyelids open and rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Give a glass of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Symptoms Caused by Exposure:

Skin Contact: May cause skin irritation and inflammation.

Eye Contact: May cause eye irritation and corneal damage.

Ingestion: Low toxicity if swallowed. May cause gastrointestinal irritation leading to nausea and vomiting.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray or fog, foam, dry chemical powder, BCF or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and nitrogen, hydrogen chloride, phosgene, and other pyrolysis products.

This product is a combustible solid.

May form flammable or explosive dust clouds. Avoid generating dust.

Avoid contact with oxidising agents, as ignition may occur.

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

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 approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

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



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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep material into a pile and shovel in a container for subsequent disposal. Consider vacuuming. Avoid generating dust. Provide adequate ventilation. Decontaminate spill area with plenty of water.

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 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 in original container. Keep container tightly closed. Protect from heat, sparks, open flames and other sources of ignition. Protect from physical damage. Keep away from strong oxidising agents. Suitable containers are polyethylene or polypropylene.

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: where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, polychloroprene, nitrile, butyl or fluorocautchouc 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:

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:	Off-white
Odour:	Odourless
Odour Threshold:	No information available
pH-Value:	6.9 (1% solution)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	280-290 °C
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	Not applicable
Density:	No information available



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Relative Density:	0.72 (bulk)
Vapour Density:	Not applicable.
Evaporation Rate:	Not applicable
Solubility in Water:	Miscible.

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 and other sources of ignition.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products:

Oxides of carbon and nitrogen, hydrogen chloride, phosgene, and other pyrolysis products.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

58509-83-4 Clopyralid, potassium salt

Oral	LD ₅₀	>3500 mg/kg (rat)
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Dermal	LD ₅₀	>2000 mg/kg (rat)
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Acute Health Effects

Inhalation: No adverse health effects expected.

Skin: May cause skin irritation and inflammation.

Eye: May cause eye irritation and corneal damage.

Ingestion: Low toxicity if swallowed. May cause gastrointestinal irritation leading to nausea and vomiting.

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: 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:

Prolonged or repeated contact or delayed treatment may cause conjunctivitis and permanent eye damage, including permanent loss of vision.

Repeated or prolonged skin contact may cause irritation or dermatitis with redness, swelling and blistering. In some cases this product may cause an allergic reaction.

Existing Conditions Aggravated by Exposure:

This product may cause harm to persons with impaired respiratory function, such as bronchitis, emphysema or other respiratory conditions.



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Additional toxicological information:

Studies have shown that repeated large doses of clopyralid causes liver and kidney damage in rats. The Australian Acceptable Daily Intake (ADI) for clopyralid 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', March 2016).

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Somewhat toxic to birds:
LD50 (Oral) 1465 mg/kg (mallard)
LD50 (Oral) >2000 mg/kg (bobwhite quail)
Non toxic to bees:
LD50 (Oral and contact) >100 µg/bee
Toxicity to other organisms:
LC50 (14 d) >1000 mg/kg soil (earthworms)

Aquatic toxicity:

58509-83-4 Clopyralid, potassium salt

EC ₅₀	89 mg/L (duckweed)
EC ₅₀ /48 h	225 mg/L (daphnia)
EC ₅₀ /96 h	6.9 mg/L (selenastrum capricornutum)
LC ₅₀	104 mg/L (rainbow trout)
	125 mg/L (bluegill)

May cause long-term adverse effects in the aquatic environment.

Persistence and Degradability:

Product has moderate persistence in soil. Laboratory studies have shown half-lives in the range or 14 - 56 days.

Bioaccumulative Potential: This product has a low potential for bioaccumulation.

Mobility in Soil: Highly mobile in soil.

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 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).
UN3077

IMDG, IATA

Proper Shipping Name
ADG
IMDG, IATA

Not regulated
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clopyralid, potassium salt)

Dangerous Goods Class
ADG Class:
IMDG Class:

Not regulated
9 Miscellaneous dangerous substances and articles.

Packing Group:
ADG
IMDG, IATA

Not regulated
III



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Marine pollutant:	No
EMS Number:	F-A,S-F
Hazchem Code:	2Z
Special Provisions:	274, 331, 335, 375, AU01
Limited Quantities:	5 kg
Packagings & IBCs - Packing Instruction:	P002, IBC08, LP02
Packagings & IBCs - Special Packing Provisions:	PP12, B3
Portable Tanks & Bulk Containers - Instructions:	T1, BK2, BK3
Portable Tanks & Bulk Containers - Special Provisions:	TP33

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances: This product contains no hazardous ingredients.

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

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 13.05.2021

Prepared by: MSDS.COM.AU Pty Ltd

www.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)

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 - December 2011"

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