



Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

1 Identification

Product Name: 4FARMERS BROMACIL 800 WG**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 Hazard(s) Identification

Hazardous Nature:

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.



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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



Acute Toxicity (Oral) 4 H302 Harmful if swallowed.

Signal Word Danger**Hazard Statements**

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

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

P310 Immediately call a POISON CENTER/doctor.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 1)

P391 Collect spillage.
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:

CAS: 314-40-9	Bromacil ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Toxicity (Oral) 4, H302	>80%
CAS: 1332-58-7	Kaolin	1 - 10%
CAS: 151-21-3	Sodium dodecyl sulphate ⚠ Acute Toxicity (Dermal) 3, H311; ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; STOT SE 3, H335	1 - 5%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. 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. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

No hazardous decomposition products known.

This product is not flammable.

Containers close to fire should be removed only if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 2)

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator 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.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Do not flush to sewer system or surface 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. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition.

8 Exposure Controls and Personal Protection

Exposure Standards:
CAS: 314-40-9 Bromacil

NES	TWA: 11 mg/m ³ , 1 ppm
WES	TWA: 11 mg/m ³ , 1 ppm

CAS: 1332-58-7 Kaolin

NES	TWA: 10 mg/m ³
WES	TWA: 10 mg/m ³

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

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:

Elbow-length plastic or rubber 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.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 3)

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:	Solid
Colour:	Brown
Odour:	Faint
Odour Threshold:	No information available
pH-Value:	7 - 10
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	Not applicable
Bulk Density:	530 kg/m ³
Vapour Density:	Not applicable.
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	Not applicable

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: No further relevant information available.

Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:**

Oral	LD ₅₀	1723 mg/kg
Dermal	LD ₅₀	>2000 mg/kg
Inhalation	LC ₅₀ /4 h	>5.09 mg/l

CAS: 7783-20-2 Sulfuric acid, diammonium salt

Oral	LD ₅₀	2,840 mg/kg (rat)
------	------------------	-------------------

CAS: 1332-58-7 Kaolin

Oral	LD ₅₀	>5,000 mg/kg (rat)
------	------------------	--------------------

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 4)

CAS: 151-21-3 Sodium dodecyl sulphate		
Oral	LD ₅₀	1,288 mg/kg (rat)

Acute Health Effects**Inhalation:** May cause respiratory irritation.**Skin:** May cause skin irritation.**Eye:** Causes serious eye damage.**Ingestion:** Harmful if swallowed.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye damage.**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:** May cause damage to organs.**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:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for Bromacil for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 10 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2019).

12 Ecological Information

Ecotoxicity:

Bromocil:

LD50 (oral) 2250 mg/kg (bobwhite quail)

LD50 (oral) >193 µg/bee

Aquatic toxicity:

Very Toxic to aquatic life with long lasting effects.

LC₅₀/96 h 36 mg/l (fish)EC₅₀/48 h 121 mg/l (crustacea)EC₅₀/72 h 0.0068 mg/l (algae)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 5)

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).
3077

IMDG, IATA

Proper Shipping Name

ADG

IMDG, IATA

Not regulated
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (Bromail)

Dangerous Goods Class

ADG Class:

IMDG Class:

Not regulated
9 Miscellaneous dangerous substances and articles.

Packing Group:

ADG

IMDG, IATA

Not regulated
III

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:

CAS: 314-40-9	Bromacil
CAS: 7783-20-2	Sulfuric acid, diammonium salt
CAS: 1332-58-7	Kaolin
CAS: 151-21-3	Sodium dodecyl sulphate

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

Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 18.02.2019

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 18.02.2019

Revision: 18.02.2019

Product Name: 4FARMERS BROMACIL 800 WG

(Contd. of page 6)

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 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)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Acute Toxicity (Dermal) 3: Acute toxicity – Category 3

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

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 - February 2016"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Australia 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. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. 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.