

Product Name: URAGAN 80 WG HERBICIDE

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This revision issued: July, 2019

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **URAGAN 80 WG HERBICIDE**

Chemical Name of Active Ing: Bromacil: 5-brono-3-sec-butyl-6-methyluracil

Product Use: Herbicide

Refer to Section 15 Restriction of Use:

ADAMA New Zealand Ltd New Zealand Supplier: Address: Level 1/93 Bolt Road

Tahunanui, Nelson Telephone: +64 3 543 8275 nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 2 July 2019

Section 2. **Hazards Identification**

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR007915

Pictograms

Email:







Toxic/Irritant

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.7B	H351	Suspected of causing cancer.	Carc. 2
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Chronic 1
9.2A	H421	Very toxic to the soil environment.	
9.3C	H433	Harmful to terrestrial vertebrates.	

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
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 protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
F301 + F312	unwell.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

Section 3. **Composition / Information on Ingredients**

Ingredients	Wt %	CAS NUMBER.
Bromacil	78-82	314-40-9

Section 4.	First Aid Measures	
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Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on Skin Remove contaminated clothing. Gently wash skin with water and soap for

15 minutes or until chemical is removed. If skin irritation occurs: Get medical advice/ attention.

If Swallowed Wash out mouth with plenty of water. Get medical attention. Never give

anything by mouth to an unconscious person.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position

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and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed. **Inhalation**: Not applicable.

Skin: Causes mild skin irritation. **Eye**: Causes serious eye irritation.

Chronic: Suspected of causing cancer. Suspected of damaging fertility or the

unborn child. May cause damage to organs through prolonged or

repeated exposure.

Notes to Doctor: There is no specific antidote. Treat symptomatically and give supportive

therapy.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from	Bromine compounds, nitrogen oxides (NO, NO2), carbon oxides (CO,
products	CO2)
Suitable	For small fire: Dry chemical, water spray, carbon dioxide.
Extinguishing	For large fire: foam, water fog, water spray
media	
Precautions for	Self-contained breathing apparatus and total protection required in
firefighters and	enclosed areas.
special protective	
clothing	
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Wear suitable protective clothing, gloves and eye/face protection. Evacuate all unnecessary personnel.

Environmental precautions

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

Methods and material for containment and cleaning up

Absorb remainder in sand or other inert material. Dispose of in an authorized waste collection. Dispose as per Section 15.

Section 7. Handling and Storage

Precautions for Handling:

- · Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Ventilation is required.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store locked up.

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- Store in original, unopened container in cool, dry place, well ventilated place, out of direct sunlight and away from stockfeed or foodstuffs.
- As a Class 9 Substance with Ecotoxicity Classifications storage of Uragan WG Herbicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m3 ppm mg/m3

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Ventilation required

Personal Protection Equipment



Eyes	Safety goggles or face shield.
Hands and	Chemical resistant gloves. Wear suitable protective clothing and chemical
Skin	resistant boots.
Respiratory	Dust mask is required.
General	When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Section 9 Physical and Chemical Properties

Appearance	Off White Granules
Odour	Faint
Odour Threshold	Not applicable
рН	7 - 10
Boiling Point	Not applicable
Melting Point	158 -159°C (Bromacil)
Flash Point	Not applicable
Flammability	Not Flammable
Upper and Lower	Not applicable
Exposure Limits	
Vapour Pressure (mPa)	0.04 @ 25 °C (Bromacil)
Specific Gravity	1.06-1.08
Solubilities in water	Miscible
LogP octanol/water:	1.9 (Bromacil)
Auto-ignition	Not applicable
Temperature	

Section 10. Stability and Reactivity

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Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	None known.
Incompatible Materials	Oxidizing agents, acids and alkali.
Hazardous Decomposition	Bromine compounds, nitrogen oxides (NO, NO2), carbon
Products	oxides (CO, CO2)

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Rat Oral LD50 [mg/kg]: =1723
Dermal	Not applicable. Rat dermal LD50 [mg/kg]: > 2,000
Inhalation	Not applicable. Rat inhalation LC50 [mg/I/4h]: >5.09
Skin	Causes mild skin irritation.
Eye	Causes serious eye irritation.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.	
Reproductive	Suspected of damaging fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	ration Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

URAGAN 80 WG

Dermal irritation (rabbit): Mildly irritating
Eyes irritation (rabbit): Mildly irritating
Sensitisation: Non sensitiser

Chronic toxicity: (Bromacil): NOEL (rat)=50 ppm (2 years)
Carcinogenicity: (Bromacil): EPA Group C: possible human

carcinogen

Mutagenicity: (Bromacil): Not mutagenic

Reproductive toxicity: (Bromacil): NOEL (rat) = 250 ppm (3

generations)

Teratogenicity: (Bromacil): NOEL (rat) = 20 mg/kg/day

(meternal) = 75 mg/kg/day (fetal)

NOEL (rabbit) = 100 mg/kg/day (Maternal and

fetal)

Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.

9.2A = Very toxic to the soil environment. 9.3C = Harmful to terrestrial vertebrates.

Common name: Bromacil

96H-LC50- Bluegill sunfish 127 mg/I 96 H-LC50 - Rainbow trout 36 mg/I 96 Hours - LC50-fish Carp = 164 mg/I 48 H-EC50 - Daphnia magna 121 mg/I 72 H-EC50 Algae 0.0068 mg/I

LD50 Birds Bobwhite quail = 2,250 mg/IBirds LC50 [ppm] Mallard duck >10,000

Bobwhite quail > 10,000

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Persistence/degradability: Soil:

The product is persistent Half-life time (t½): 60 days

Degradation is primarily via: microorganisms.

Mobility: Soil – moderately mobile

Koc = 32 ml/g (Average)Kd = 0.2-1.8 ml/g.

Section 13. Disposal Considerations

Disposal Method: 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 bags and product should not be burnt. Dispose of the product only by using according to the label, or at an approved landfill.

Precautions and methods to avoid:

Avoid contamination of any water supply with product or empty container.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S, (Bromacil)

Air Transport

UN No: 3077
Class-primary 9
Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S, (Bromacil)

Marine Transport

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S, (Bromacil)

Marine Pollutant Yes

Special Provisions:

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

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EPA Approval Code: HSR007915

HSNO Classification: 6.1D(oral), 6.3B, 6.4A, 6.7B, 6.8B, 6.9B, 9.1A, 9.2A, 9.3C

Refer to EPA website www.epa.govt.nz for controls document - HSR007915

HSW (HS) Regulations 2017	Trigger Quantity/Regulation		
HSW(Hazardous substance) Regulations Part 4	HSW Reg 4.5 - 4.6		
Certified Handlers and supervision and training	Information, instruction, training and		
of workers	supervision.		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	100Kg (9.1A)		
Emergency Response Plan (Schedule 5)	100Kg (9.1A)		
Secondary Containment (Schedule 5)	100Kg (9.1A)		
Tracking (Schedule 26)	Not required		
HSNO Additional Controls (Restrictions of use)			
77A	The substance must not be applied onto or		
	into water.		
Hazardous Property Controls Notice 2017			
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate		
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators		
HPC Notice Part 3	Hazardous substances in a place other than a workplace		
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances		
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides		
ACVM Act and Regulations			
ACVM Approval No	P7859		
See <u>www.foodsafety.govt.nz</u> for registration			
controls			

Other Information		
Median effective concentration.		
Environmental Exposure Limit.		
Environmental Protection Authority		
Hazardous Substances and New Organisms.		
Lethal concentration that will kill 50% of the test organisms		
inhaling or ingesting it.		
Lethal dose to kill 50% of test animals/organisms.		
Lower explosive level.		
American Occupational Safety and Health Administration.		
Tolerable Exposure Limit.		
Threshold Limit Value-an exposure limit set by responsible		
authority.		
Upper Explosive Level		
Workplace Exposure Limit		

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

Product Name: URAGAN 80 WG HERBICIDE Prepared by: Technical Compliance Consultants (NZ) Ltd

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the ADAMA, if further information is required.

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