

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: Troy 480 SL Herbicide Product Use:

Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**

Address: 407 State Highway 16

> Kumeu 0841, Auckland

Telephone: +64 9 412 9817 +64 9 412 9807 Fax: www.adria.nz Website:

0800 734 607 (24hr) **Emergency No:**

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 9 November 2018

Section 2. **Hazards Identification**

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

EPA Approval No: HSR000426

Pictograms



Toxic/Irritant

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.

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P261	Avoid breathing fumes, vapours and spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Bentazone	480g/l	25057-89-0
NaOH (33 %)	10-30%	1310-73-2
Non-hazardous ingredients	To bal	-

Section 4. First Aid Measures

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. Wash with plenty of soap

and water. If skin irritation or rash occurs: Get medical advice/attention.

If Swallowed Rinse mouth immediately and then drink plenty of water, seek medical

attention. Do not induce vomiting unless told to by a poison control centre or doctor. Never induce vomiting or give anything by mouth if the victim is

unconscious or having convulsions. For advice, contact the National

Poisons Centre on 0800 POISON (0800 764766).

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position 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: May cause an allergic skin irritation.

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Eye: Causes serious eye irritation.

Chronic: Not applicable.

Treatment: No specific antidote. Supportive care. Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.
Hazards from products	In case of fire bentazone decomposes to form toxic gas/vapour (sulphur oxide, nitrogen oxide).
Suitable Extinguishing media	Dry chemical, carbon dioxide, foam, water.
Recommended protective clothing & Precautions for firefighters	Wear self-contained breathing apparatus and chemical-protective clothing. Keep drums cool by spraying with water, extra personal protection: self-contained breathing apparatus.
HAZCHEM CODE	1Z

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Contain and collect spillage with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

Section 7. Handling and Storage

Precautions for Handling:

- · Read label before use.
- Avoid breathing fumes, vapours and spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- · Keep away from children.
- Store in a dry well-ventilated place.
- Protect from temperature extremes.
- Protect from direct sunlight.
- Segregate from Food items.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

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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 / Industrial Hygiene

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Safety goggles with side-shields.
Skin	Gloves (rubber), protective clothing.
Respiratory	In case of spray: ventilation, local exhaust or breathing protection (Filter respirator).
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Clear
Odour	Chemical
Odour Threshold	Not available
pH	8.13
pH(1%)	6.79
Boiling Point	100°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	>80°C
Flammability	Not available
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.19
Water Solubility	Miscible
Octanol/water partition	Not available
coefficient:	
Auto Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	12.11-14.20 mPas
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	In case of fire, nitrogen oxides, sulphur dioxide and carbon
reactions	monoxide may be produced.
Conditions to Avoid	Avoid heat, flames, sparks and other sources of ignition.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition	Bentazone decomposes when exposed to UV light.
Products	

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Acute Effects:

Swallowed	Harmful if swallowed.	
	Bentazone 480 g/l SL: Acute LD50 oral (rats) = >1400-1800 mg/kg	
Dermal	Not applicable.	
	Bentazone 480 g/l SL: Acute LD50 dermal (rats) = >5000 mg/kg	
Inhalation	Not applicable.	
	Bentazone 480 g/l SL: Acute LC50 inh (rat) – 4 hr = 5.1mg/L	
Eye	Causes serious eye irritation.	
Skin	May cause an allergic skin irritation.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Not applicable.		
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

Section 12. Ecotoxicological Information

Ecological effects information	9.1C = Harmful to aquatic life with long lasting effects.			
	9.3C = Harmful to terrestrial vertebrates.			
Persistence and degradability	No data available			
Bioaccumulation	No data available			
Mobility in Soil	No data available			
Other adverse effects	No data available			
Bentazone 480 g/l SL				
Aquatic organisms				
LC50 (96h) rainbow trout	> 250 mg/l			
EC50 (48h) Daphnia magna	> 248 mg/l			
EBC50 Algae	109 mg/l			
ERC50 Algae	251 mg/l			
EC50 (21 d) Daphnia Magna	> 250 mg/l (survival)			
NOEC (21 d) Daphnia Magna	250 mg/l (survival)			
EC50 (21 d) Daphnia Magna	236 mg/l (reproduction)			
NOEC (21 d) Daphnia Magna	100 mg/l (reproduction)			
LC50 (14 d) rainbow trout	102 mg/l (juvenile growth)			
LC50 (28 d) rainbow trout	68 mg/l (juvenile growth)			
Beneficial arthropods Aphidius rhopalosiphi LR50 (48 h) Aphidius rhopalosiphi Typhlodromus pyri Poecilus cupreus Chrysoperla carnea	Harmful (category 4) 1020 µl/l Slightly harmful (category 2) Harmless (category 1) Harmless (category 1)			
Birds LD50 acute, oral bobwhite quail LC50 bobwhite quail LC50 mallard duck	ca. 1140 mg/kg > 5000 ppm > 5000 ppm			
Aquatic organisms LC50 (96 h) O. mykiss EC50 (96 h) Daphnia magna EC50 (120 h) A. flos-aque:	> 100 mg/l 64 mg/l 10.1 mg/l 5.4 mg/l			

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EC50 (14 d) L. gibba :	
Bees Acute oral toxicity Acute contact toxicity	> 200 µg a.s./bee > 200 µg a.s./bee
Worms LC50 earthworms	> 870 mg a.s./kg dry weight substrate
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

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

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

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

EPA Approval Code: HSR000426

HSNO Classification: 6.1D(Oral), 6.4A, 6.5B, 9.1C, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	1000L (9.1C)		
Emergency Response Plan (Schedule 5)	1000L (9.1C)		
Secondary Containment (Schedule 5)	1000L (9.1C)		
Tracking (Schedule 26)	Not required		
HSNO Additional Controls (Restrictions of	Refer to EPA www.epa.govt.nz for		
use)	controls document - HSR000426		
77A	This 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.		

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ACVM Act and Regulations				
ACVM Approval No	P7236			
See <u>www.foodsafety.govt.nz</u> for registration				
controls				

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers 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

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Please contact Adria, if further information is required.

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