

# SAFETY DATA SHEET

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

#### Section 1. Identification of the material and the supplier

Product: Torus Product Use: Herbicide

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)3 **Emergency No:** 

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 19 August 2019

#### Section 2. **Hazards Identification**

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

**EPA Approval No: HSR000436** 

#### **Pictograms:**







Irritant

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1D	H227	Combustible liquid.	Flam. Liq. 4
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
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.	-

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<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P391	Collect spillage.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical extinguisher, foam, carbon dioxide or waterspray for extinction.

<b>Storage Code</b>	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Carfentrazone-ethyl	24	128639-02-1
Non-hazardous	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 Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

If Swallowed Do NOT induce vomiting. Wash mouth with water. Call a POISON CENTER

or doctor/physician if you feel unwell.

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:** May be harmful if swallowed.

**Inhalation:** Not applicable.

Skin: Causes mild skin irritation.

Eye: Causes serious eye irritation.

**Chronic:** May cause damage to organs through repeated exposure. **Treatment:** Treat according to symptoms (decontamination, vital functions).

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## Section 5. Fire Fighting Measures

Hazard Type	This product is combustible
Hazards from combustion products	Carbon and nitrogen oxides.
Suitable Extinguishing media	Dry chemical extinguisher, foam, carbon dioxide.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing.
HAZCHEM CODE	3Z

#### 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:**

Absorb spills with inert material and place in waste containers. 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.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not breathe fumes, vapours or spray.
- Wash hands after handling.
- Avoid contact with skin and eyes.
- · Ventilation required.
- Keep away from heat sources and direct sunlight.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

## **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Keep away from heat and protect from sunlight.
- Protect against freezing.
- Stores containing more than 100L are subject to requirement of an emergency management response plan, secondary containment and signage.

## 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

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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.
Hands	Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber
	gloves with a minimum thickness of 0.4 mm.
Skin	Body protection (chemical protection suit, boots) must be chosen depending
	on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with
	medium efficiency for solid and liquid particles.
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 EW
Colour	White
Odour	Characteristic odour
Odour Threshold	Not available
pH	4.8
<b>Boiling Point</b>	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
<b>Explosive Limits</b>	
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.06 g/L
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition	Not available
Temperature	
Viscosity	Not available
<b>Particle Characteristics</b>	Not available

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. Combustible.
Possibility of hazardous	None known.
reactions	
<b>Conditions to Avoid</b>	Temperature extremes.
Incompatible Materials	Oxidizing agents, acids and alkali.
<b>Hazardous Decomposition</b>	None known.
Products	

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# Section 11 Toxicological Information

## **Acute Effects:**

Swallowed	May be harmful if swallowed.
	Carfentraazone-ethyl: Female rats LD50: 5,143mg/kg
Dermal	Not applicable.
	Carfentraazone-ethyl: Rats LD50: > 4,000mg/kg
Inhalation	Not applicable.
	Carfentraazone-ethyl: Rats LC50: > 5mg/l
Eye	Causes serious eye damage.
Skin	Causes mild 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	May cause damage to organs through repeated exposure.

# **Section 12. Ecotoxicological Information**

<b>Ecological effects information</b>	9.1A = Very toxic to aquatic life with long lasting effects.
	9.2A = Very toxic to the soil environment.
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
	(Based on the active ingredient Carfentraazone-
	ethyl):
Acute fish toxicity (based on	1.6-43, depending on species
active ingredient) [LC50	
mg/L] (96 h):	
Toxicity for daphnia magna	9.8
(based on active ingredient)	
[EC50 mg/L] (48 h):	
Toxicity to aquatic plants	EC50 (96 h) for eastern oysters 2.05, mysid shrimps 1.16
(based on active ingredient):	ppm. EC50 (14 d) for Lemna gibba 0.0057 mg/l.
Honeybee (based on active	>35 (oral), >200 (contact)
ingredient) [LD50 µg/bee]:	
Mallard Duck (based on active	>5,620 ppm
ingredient) [LC50]:	
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.

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



# Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (carfentrazone-ethyl)	
Marine Pollutant	Yes	
<b>Special Provisions-</b>	If the product's individual container is below 5L/kg, it can be	
Limited Quantities	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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000436

HSNO Classification: 3.1D, 6.1E(oral), 6.3B, 6.4A, 6.9B, 9.1A, 9.2A

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	100L (9.1A)		
Emergency Response Plan (Schedule 5)	100L (9.1A)		
Secondary Containment (Schedule 5)	100L (9.1A)		
Tracking (Schedule 26)	Not required		
For further information on and control	Refer to EPA <u>www.epa.govt.nz</u> for controls		
document:	document - HSR000436		
HSNO Additional Controls (Restrictions of use)			
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		
HPC Notice Part 4 Subpart C	Qualification required for application of class		
	9 pesticides.		
ACVM Act and Regulations			
ACVM Approval No	P9308		
See <u>www.foodsafety.govt.nz</u> for registration			
controls			

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#### 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

EC<sub>50</sub> Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> 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

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

Please contact Adria, if further information is required.

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