

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Strada 400SC Product:

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: Website: www.adria.nz

0800 734 607 (24hr)3 **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: HSR100528

Pictograms







Allergic

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.9B	H371/373	May cause damage to organs through single, prolonged or repeated exposure.	STOT RE 2
9.1A	HH410	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.	-

Product Name: Strada 400SC Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 9 November 2018

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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fumes, vapours, or 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or
P309 + P311	doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Pendimethalin	40.00	40487-42-1
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

immediately call a POISON CENTRE or doctor/physician.

If on Skin Wash affected areas with soap and water. Wash contaminated clothing

before reuse. If skin irritation or rash occurs: Get medical

advice/attention.

If Swallowed If swallowed, do NOT induce vomiting. Rinse mouth. For advice contact

the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor

immediately.

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: May cause an allergic skin reaction.

Eye: Not applicable.

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Chronic: May cause damage to organs through single, prolonged or repeated

exposure.

Treat according to symptoms (decontamination, vital functions), no known **Treatment:**

specific antidote, administer corticosteroid dose aerosol to prevent

pulmonary odema.

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.
Hazards from products	Thermal decomposition generates: carbon monoxide, nitrogen oxides.
Suitable Extinguishing media	Water spray, water fog, carbon dioxide, foam, dry extinguishing media.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and appropriate 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.

Handling and Storage Section 7.

Precautions for Handling:

- Read label before use.
- Do not breathe fumes, vapours, or spray.
- Wash hands thoroughly after handling.
- Ensure adequate ventilation.
- Cleaning water should be disposed of in appropriate manner
- 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 locked up.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs.
- Stores containing more than 100L of Strada require bunding and are subject to signage.
- Storage must generally be in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).
- Store away from incompatible materials listed in Section 10.

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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredient has 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 / Industrial Hygiene

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Safety goggles with side-shields.
Skin	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)). Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
Respiratory	Wear respiratory protection if ventilation is inadequate. Use 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
Colour	Yellow
Odour	Characteristic odour
Odour Threshold	Not available
pH	7.0 - 8.0
Melting Point/Boiling	> 50 °C
Point	
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	1050-1100 g/L
Water Solubility	Not available
Octanol/water partition	Not available
coefficient:	
Auto Ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
Viscosity	Not available
Particle Characteristics	Not available

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Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to Avoid	Avoid all sources of ignition: heat, sparks, and open flame. Avoid extreme temperatures. Avoid prolonged exposure to extreme heat. Avoid contamination. Avoid electro-static discharge. Avoid prolonged storage
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	No decomposition if stored and handled as prescribed/indicated.

Toxicological Information Section 11

Acute Effects:

Swallowed	May be harmful if swallowed.
	Pendimethalin: LD50 = 1050 mg/kg rat (f)
Dermal	Harmful if in contact with skin. LD50: ≥ 2,000 mg/kg - rabbits
Inhalation	Harmful if inhaled. LC50: >320 mg/l - rat
Eye	Not applicable.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	May cause damage to organs through single exposure.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Section 12. Ecotoxicological Information

Ecological effects information	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.	
Persistence and degradability	No data available	
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity:	LC50 (96 h) for rainbow trout 0.14, bluegill sunfish 0.2,	
	channel catfish 0.42 mg/l.	
	Pendimethalin:	
	Acute = Rainbow trout Oncorhynchus mykiss =	
	LC50 = 0.138 mg/l(96 hr)	
	Chronic = Fathead minnow Pimephales promelas	
	= LOEC = 0.0098mg/l (288days)	
Toxicity for daphnia:	EC50 (48 h) 0.28 mg/l.	
	Pendimethalin:	
	Acute: = EC50 0.28mg/l (48hr)	
	Chronic: = LOEC = 0.017mg/l (21 days)	
Toxicity to algae:	Pendimethalin:	
	Acute: Selenastrum capricornutum = EC50 =0.006mg/l	
	(120hrs)	
	Chronic: Lemna gibba = EC50 = 0.012mg/l (14 days)	

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Very ecotoxic in the soil	Ryegrass Lolium perenne = EC25 = 0.0048mg/kg soil	
environment	(14 days): Soild DT50 >30 days: yes	
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 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	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
	(PENDIMETHALIN), LIQUID, N.O.S.	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L, 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: HSR100528

HSNO Classification: 6.1E(oral), 6.5B, 6.9B, 9.1A, 9.2A, 9.3C

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
HSNO Additional Controls (Restrictions of	Refer to EPA www.epa.govt.nz for
use)	controls document - HSR100528

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77A - A restriction has been placed on the use of the substance. Variation:	Strada 400SC shall 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 See <u>www.foodsafety.govt.nz</u> for registration controls	P8371		

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**

Hazardous Substances and New Organisms. **HSNO**

HSW Health and Safety at Work.

Lethal concentration that will kill 50% of the test organisms LC_{50}

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
- Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 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-todate 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

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Tel: 64 9 475 5240 www.techcomp.co.nz (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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