

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Tramino**
 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
 Fax: +64 9 412 9807
 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 25 November 2020

Section 2. Hazards Identification

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

EPA Approval No: HSR101370

Pictograms



Corrosive Ecotoxic

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
8.3A	H318	Causes serious eye damage.	Eye Corr. 1
9.2A	H421	Very toxic to the soil environment.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
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.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.
aminopyralid	30g/L	150114-71-9
Non-hazardous ingredients		

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 skin thoroughly with water and soap. If irritation or rash develops get medical attention/advice.

If Swallowed If swallowed do NOT induce vomiting. Rinse mouth. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) 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: Not applicable.
Inhalation: Not applicable.
Skin: Not applicable.
Eye: Causes serious eye damage.
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	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
Suitable Extinguishing media	Suitable: Dry chemical, carbon dioxide, water fog or spray, standard foam. Unsuitable: High pressure water jet media.

Recommended protective clothing & Precautions for firefighters	Fire-fighters should wear approved self-contained breathing apparatus and full protective clothing. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.
HAZCHEM CODE	2Z

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 release into the environment.
- Do not eat, drink or smoke when handling.
- Wash hands before eating, drinking or smoking and after work.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store in a cool, well-ventilated storeroom, away from children and unauthorised personnel, and food and animal feed.
- Protect from excessive heat and cold.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Aminopyralid		10 mg/m ³		

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 2019 11TH EDITION.

Engineering Controls / Industrial Hygiene

Provide local exhaust or general dilution ventilation.

Personal Protection Equipment

Eyes	Wear splash-proof or dust-resistant safety goggles.
Skin	Wear clean, long-sleeved, body-covering clothing. Use gloves, impervious to this material, when prolonged or frequently repeated contact could occur. For emergency conditions: use protective clothing impervious to this material.

Respiratory	For most conditions, no respiratory protection is necessary. However, if respiratory irritation is experienced, use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
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	Red to pink
Odour	Characteristic
Odour Threshold	No data available
pH	5 - 7
Boiling Point	No data available
Melting Point	Not applicable
Freezing Point	No data available
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower Explosive Limits	No data available
Vapour Pressure	No data available
Vapour Density	No data available
Density	1.018
Water Solubility	Soluble
Octanol/water partition coefficient:	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	No data available
Surface tension	No data available

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 temperature extremes.
Incompatible Materials	Strong basic, acidic or oxidising materials.
Hazardous Decomposition Products	None under normal conditions of storage and use.

Section 11 Toxicological Information

Acute Effects (based on the technical material):

Swallowed (LD₅₀)	Rats >5000 mg/kg
Dermal (LD₅₀)	Rats >5000 mg/kg
Inhalation (LC₅₀)	Rats (male) > 5.5
Eye	Irritant (rabbits)
Skin	Not an irritant (rabbits)

Chronic Effects:

Carcinogenicity	For active ingredient: Aminopyralid. Did not cause cancer in laboratory animals.
Reproductive Toxicity	For active ingredient: Aminopyralid. In animal studies, did not interfere with reproduction.
Germ Cell Mutagenicity	No data available

Aspiration	Not likely to be an aspiration hazard
STOT/SE	No data available
STOT/RE	No data available

Section 12. Ecotoxicological Information

Ecological effects information	9.2A = Very toxic to the soil environment.
Persistence and degradability	For similar materials: Aminopyralid. Material is not readily biodegradable according to OECD/EEC guidelines.
Bioaccumulation	For active ingredient. Aminopyralid. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Mobility in Soil	For active ingredient: Aminopyralid. Potential for mobility in soil is very high (Koc between 0 and 50).
Other adverse effects	No data available
Aminopyralid:	
- Birds	Acute oral LD ₅₀ for bobwhite quail >2250 mg/kg. Dietary LC ₅₀ for bobwhite quail and ducks >5620 mg/kg diet.
- Fish	LC ₅₀ (96 h) for rainbow trout, sheepshead minnows and bluegill sunfish >100.
- Bees	>120 (oral) (48 h), >100 (contact) (48 h) (LD ₅₀ , µg/bee).
- Worms	LC ₅₀ (14 d) for earthworms >1000 mg/kg soil.
- Others	
Daphnia:	EC ₅₀ (48 h) >100 mg/l.
Algae:	EC ₅₀ (72 h) for freshwater green algae 30 mg/l; E _b C ₅₀ (72 h) for <i>Navicula pelliculosa</i> 18 mg/l.
Other aquatic spp.:	EC ₅₀ (14 d) for <i>Lemna gibba</i> >88 mg/l; EC ₅₀ (48 h) for eastern oysters >89 mg/l; LC ₅₀ (96 h) for mysid shrimps >100 mg/l.
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

Road, Rail, Sea and Air Transport

Not regulated for transport

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

EPA Approval Code: HSR101370

HSNO Classification: 8.3A, 9.2A

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	100L (9.2A)
Emergency Response Plan (Schedule 5)	10 000L (8.3A)
Secondary Containment (Schedule 5)	10 000L (8.3A)
Tracking (Schedule 26)	Not required
HSNO Additional Controls (Restrictions of use)	Refer to EPA www.epa.govt.nz for controls document – HSR101370
77A A maximum application rate is set for this substance.	The maximum application rate of this substance is 60 g of ai/ha (equivalent to 2 L/ha). The maximum application frequency and minimum interval period of this substance must not be more than once per calendar year.
77A -Restrictions have been placed on using material treated with this substance in compost	Tramino must not be used for the treatment of crops or plants where these will be used for making compost; or where the crops will be made available for collection for, or deposited at, a municipal green waste recycling depot.
77A - A restriction has been placed on the application method for this substance.	When applied using ground-based application methods, the nozzle must be set to a minimum medium droplet quality spray, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline. When applied using aerial methods, the nozzle must be set to coarse droplet quality spray, as defined by the American Society of Agricultural and Biological Engineers ASABE Standard (S572) or the British Crop Production Council guideline. The substance must not be applied when wind speeds are less than 3 km/hr or more than 20 km/hr as measured at the application site.
Hazardous Property Controls Notice 2017	
HPC Part 1	Hazardous Property Controls preliminary Provisions
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 B	Use of class 9 substances in any place.
HPC Notice Part 4 Subpart C	Qualifications required for applications of class 9 pesticides.
ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	P9763

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 ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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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