

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Tactix®**
 Product Use: Herbicide
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrisource 2000 Ltd**
 Address: 45 Kitchener Road
 Pukekohe, Auckland

Telephone: +64 9 237 0422
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 28 February 2025

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR101602

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Aspiration hazard Cat. 1	H304	May be fatal if swallowed and enters airways.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms.	H422	Hazardous to soil organisms
Hazardous to terrestrial vertebrates.	H432	Hazardous to terrestrial vertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment [if this is not the intended use].
P280	Wear protective clothing [as detailed in SDS 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.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Restrictions on use:

This substance must be applied using ground-based methods only.

The substance must not be applied when wind speeds are less than 3 km/h, or more than 20 km/h as measured at the application site.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Alachlor	480g/L	15972-60-8
Other ingredients	To balance	Proprietary

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. Immediately call a POISON CENTER or doctor/physician.
If on Skin	If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, seek medical advice immediately. Persons who become sensitised may require specialized medical management with anti-inflammatory agents.
If Swallowed	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. Seek medical assistance immediately.
If Inhaled	Begin artificial respiration if the victim is not breathing. Obtain medical attention. Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.

Most important symptoms and effects, both acute and delayed

Symptoms:	
Swallowed:	Harmful if swallowed. May be fatal if swallowed and enters airways.
Inhalation:	Harmful if inhaled.
Skin:	May cause an allergic skin reaction.
Eye:	Causes serious eye damage.
Chronic:	Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.
Hazards from products	When heated to decomposition, alachlor emits very toxic fumes of chloride and oxides of nitrogen.
Suitable Extinguishing media	Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product.
Precautions for firefighters and special protective clothing	Fire may produce irritating or poisonous vapours (toxic oxides of nitrogen and carbon and corrosive fumes of chlorides), mists or other products of combustion. Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment as detailed in Section 8. Avoid contact with skin and eyes. Clear area of all unprotected personnel. Ensure adequate ventilation.

Environmental precautions:

Do not allow entering drains or watercourses. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations.

Methods and material for containment and cleaning up:

Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry. Dispose of waste safely in an approved landfill or hazardous waste facility as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment [if this is not the intended use].
- Wear protective clothing [as detailed in SDS Section 8].
- Avoid contact with eyes and skin, and inhalation of vapour and spray.
- Use with adequate ventilation.
- Do not spray near open flame.
- Wash hands before eating, drinking, chewing gum, smoking, or using the toilet.
- Remove clothing immediately if the herbicide gets inside.
- Then wash skin thoroughly using a non-abrasive soap and put on clean clothing.
- Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark.
- Water used to clean equipment must be disposed of correctly to avoid contamination.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- To maintain the quality, store in covered warehouse at temperatures between 0° and 50° C.
- Keep containers tightly closed, in a well-ventilated place.
- Store away from food, drink, animal feeding stuffs and sources of ignition.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m ³	STEL ppm mg/m ³
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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 2023 14TH EDITION.

Engineering Controls

Handle outdoors or in a well-ventilated area.

Personal Protection Equipment



Eyes	Wear safety glasses with side shields.
Skin	Wear appropriate chemical resistant gloves and clothing.
Respiratory	In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.
General Hygiene	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Brownish
Odour	Organic slight odour
Odour Threshold	Not available
pH	4-7
Boiling Point	Not available
Melting /Freezing Point	Not available
Flash Point	95°C
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.057
Solubility	Not available
Octanol/water partition coefficient:	Not available
Auto-ignition Temperature	Does not ignite
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	The product is stable and non-reactive under normal conditions of use, storage and transport.
Possibility of hazardous reactions	No data available.
Conditions to Avoid	Avoid heat, flames, sparks and other sources of ignition.
Incompatible Materials	Acids (Strong): Hydrolyzes. Bases (Strong): Hydrolyzes. Black Iron: May Corrode. Steel: May Corrode.
Hazardous Decomposition Products	Thermal decomposition products: oxides of nitrogen, carbon, halogenated compounds.

Section 11. Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Oral, rat LD50 951 mg/kg bw
Dermal	Not applicable. Dermal, rat LD50 5000 mg/kg bw
Inhalation	Harmful if inhaled. LC50, 3.14mg/l at 4h in the rat (nose only)
Eye	Causes serious eye damage.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Causes damage to organs through prolonged or repeated exposure.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Ecotoxicity:

Birds: Minimally toxic to birds. LD50: > 2000 mg/kg (Japanese quail)

Fish: Toxic to fish. LC50 (96 h): 1.8 mg/L (Brachydanio rerio).

Daphnia: EC50 (48 h) for Daphnia magna is 10.8 mg/l.

Bees: Non-toxic to bees. LD50 > 100 g/bee.

Beneficial insects: Laboratory studies show that there was no hazardous effects of Alachlor 480 EC on the mortality and food consumption of Carabid beetles (Poecilus cupreus L.). Earthworms: Non-toxic to Eisenia foetida at or below 1000 mg/kg after 14 days of exposure.

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Container Disposal: Dispose of as unused product.



Precautions or methods to avoid: Do not allow this material to drain into sewers.

Section 14. Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020

**Road, Rail, Sea and Air Transport**

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alachlor)
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 EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR101602

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100L
Emergency Response Plan (Schedule 5)	100L
Secondary Containment (Schedule 5)	100L
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use	Refer to EPA website for full control details www.epa.govt.co.nz
77A - Use restrictions	Variation: This substance must be applied using ground-based methods only. The substance must not be applied when wind speeds are less than 3 km/h, or more than 20 km/h as measured at the application site.
ACVM Registration Number (See www.foodsafety.govt.nz for registration Conditions).	P10328

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 2023 14th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
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 the Agrisource 2000 Ltd, if further information is required.

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