

SAFETY DATA SHEET

Product Name: Turfclean Ultra Concentrate

Print/View Date: 29/05/2025

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	Turfclean Ultra Concentrate
Recommended uses:	Herbicide
Restrictions on Use/Supply:	The substance must not be applied in agriculture or in a wide dispersive manner. The dilution rate of this substance is 10mL in a minimum 1L of water when used on turf, and 20mL in a minimum 1L of water when used on tough or woody weeds.
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

GHS Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Acute Tox. 4 (oral)	Not applicable for the UN RTDG Model Regulations		Warning	H302	P264 P270	P301+P312 P330	No storage statements	P501
Asp. Tox. 1	Not applicable for the UN RTDG Model Regulations		Danger	H304	P102 P103	P101 P301+P310 P331	P405	P501
Skin Irrit. 2	Not applicable for the UN RTDG Model Regulations		Warning	H315	P264 P280	P302+P352 P321 P332+P313 P362	No storage statements	P501
Skin Sens. 1	Not applicable for the UN RTDG Model Regulations		Warning	H317	P261 P272 P280	P302+P352 P321 P333+P313 P363	No storage statements	P501
Eye Irrit. 2	Not applicable for the UN RTDG Model Regulations		Warning	H319	P264 P280	P305+P351+P338 P337 +P313	No storage statements	P501
STOT Rep. Exp. 1	Not applicable for the UN RTDG Model Regulations		Danger	H372	P260 P264 P270	P314	No storage statements	P501
Aquatic Acute 1			Warning	H400	P103 P273	P391	No storage statements	P501
Aquatic Chronic 1			Warning	H410	P103 P273	P391	No storage statements	P501

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Signal word: DANGER

Dangerous Goods: Dangerous Goods (Class 9)

Packaging Group: III

Hazardous Substance (GHS) Codes: Acute Toxicity (oral) Cat. 4
Aspiration Toxicity Cat. 1
Skin Irritation Cat. 2
Eye Irritation Cat. 2
Skin Sensitisation Cat. 1
Specific Target Organ Toxicity (repeated exposure) Cat 1.
Aquatic Acute Cat 1.
Aquatic Chronic Cat 1.
Hazardous to soil organisms
Hazardous to terrestrial vertebrates.

Pictograms:



Hazard Statement: H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372: Causes damage to liver, kidneys, and blood and hematopoietic system, through prolonged or repeated oral exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

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Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist, vapours or spray.

P264: Wash hands and exposed skin 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 gloves and eye protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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.

P314: Get medical advice if you feel unwell.

P321: Specific treatment on the label.

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P362: Take off contaminated clothing and wash before re-use.

P391: Collect spillage.

P405: Store locked up.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in

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accordance with the Hazardous Substances (Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Opaque, milky Liquid

Ingredients

Ingredients	CAS #	Content %
2,4-D ethylhexyl ester	1928-43-4	15%
Fluroxypyr-1-methylheptyl ester	81406-37-3	4%
Triclopyr-2-butoxyethylester	64700-56-7	3%
Carfentrazone - ethyl	128639-02-1	0.25%
Diethylene glycol monobutyl ether	112-34-5	30-40%
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: May be fatal if swallowed and enters airways. Rinse mouth and drink 1-2 glasses of water or milk. Do NOT induce vomiting. Immediately call the National POISONS CENTRE on 0800 764 766 or doctor and have product label at hand.

Eye Contact: Causes eye irritation. 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 and have product label at hand.

Skin Contact: Causes skin irritation and may cause an allergic skin reaction. Remove all contaminated clothing and wash exposed skin thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice and have product label at hand. Wash contaminated clothing before reuse.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If

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experiencing respiratory symptoms: Call a doctor or the National Poisons Centre on 0800 764 766 and have product label at hand.

Advice for Medical Doctors: Treat symptomatically

5. FIRE FIGHTING MEASURES

HAZCHEM code:	3Y
Specific Hazards:	None. Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are water, CO ₂ , powder, or alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
Hazardous Products of Combustion:	Carbon oxides (CO, CO ₂), hydrogen chloride (HCl) gas, hydrogen fluoride (HF), nitrogen oxides (NO _x), and ammonia (NH ₃)

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Minimise spread. Contain spill and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.
Major Spills (more than 20 kg):	Clear area of unprotected personnel. Minimise spread. Contain spill and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter

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the waterways or sewer. If spill does enter waterway contact local authority.

Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

7. HANDLING AND STORAGE

Precautions for safe handling:

Wear protective gloves and eye protection. Avoid contact with skin and eyes. Avoid inhaling spray, mist or vapours. When handling product in bulk, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Clean equipment after use. Do not contaminate drains, sewers or waterways.

Conditions for safe Storage including incompatibilities:

Keep out of the reach of children. Store locked up and tightly closed, in original container, in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. Do not allow product to get wet in storage.

Minimum shelf life: 2 years.

Protection against fire and explosion:

Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:

None

Engineering Controls:

No special requirements when used as recommended.

Hand protection:

Wear chemical resistant gloves.

Eye protection:

Wear eye or face protection.

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Body protection:	Minimise skin exposure to avoid contact. Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	No special requirements when used as recommended.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing.
Environmental Exposure Controls:	Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation.

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Impurity limits	77A	The following limits are set for toxicologically relevant impurities in the active ingredient 2,4-D ethylhexyl ester used to manufacture this substance: <ul style="list-style-type: none">• Free phenol (calculated as 2,4-dichlorophenol): 3 g/kg maximum• The maximum content of dioxin toxicity equivalent (TEQ) must be less than 0.1 ppb (ng/g).• The concentration of the 2,3,7,8-tetrachlorodibenzo-para-dioxin (2,3,7,8-TCDD) congener must be undetectable at a detection limit of at least 0.01 ppb (ng/g).
Label	77A	The substance label must include the following statements, or words to the same effect: <ul style="list-style-type: none">• This substance must not be applied in agriculture or in a wide dispersive manner.• The dilution rate of this substance is 10 mL in a minimum of 1 L of water when used on turf, and 20 mL in a minimum 1 L of water when used on tough or woody weeds;• All people and pets must be kept away from the area while it is being sprayed;• Do not allow anyone, especially children and toddlers, onto the sprayed area until the spray has dried;• This substance may damage desirable plants, take steps to prevent application to non-target plants.
Packaging	77A	The packaging of this substance is restricted to a container size of 1 L or less.
Use restrictions	77A	The substance must not be applied in agriculture or in a wide dispersive manner. The dilution rate of this substance is 10 mL in a minimum 1 L of

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		water when used on turf, and 20 mL in a minimum 1 L of water when used on tough or woody weeds.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky, white, opaque liquid
Odour:	Mild odour
Odour Threshold:	No data
pH Value:	Not applicable
Melting/freezing point:	No data
Boiling point (range):	No data
Flash Point:	No data
Flammability:	Highly flammable liquid and vapour
Explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data for mixture
Solubility:	Emulsifiable
Partition coefficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Incompatibility or conditions to be avoided:	Avoid excessive heat or strongly oxidising substances

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Corrosive Properties:	Not corrosive to metals.
Thermal Decomposition:	Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Class:	Acute Toxicity (oral) Cat. 4 Aspiration Toxicity Cat. 1 Skin Irritation Cat. 2 Eye Irritation Cat. 2 Skin Sensitisation Cat. 1 Specific Target Organ Toxicity (repeated exposure) Cat 1. Aquatic Acute Cat. 1 Aquatic Chronic Cat. 1 Hazardous to soil organisms Hazardous to terrestrial vertebrates.
Acute Toxicity:	Acute oral LD ₅₀ = 737 mg/kg (rat). Acute dermal LD ₅₀ >2000 mg/kg (rat)
Aspiration hazard:	May cause irritation on inhalation of mist, vapour or spray.
Skin corrosion/irritation:	Prolonged or repeated exposure may cause skin irritation and dermatitis.
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory or skin sensitisation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

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Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific organ toxicity – single exposure: No data available

Specific organ toxicity – repeated exposure: May cause damage to liver, kidneys, and blood and hematopoietic system through prolonged or repeated oral exposure.

Narcotic effects: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance: Very toxic to aquatic life with long lasting effects. Hazardous to terrestrial invertebrates. Contains Pyrethroids which are toxic to fish and other aquatic invertebrates. Do not contaminate waterways, sewers, or drains when using product or packaging.

No data for mixture:

2,4-D ethylhexyl ester:

Water flea, EC₅₀ (48 hr) = 0.018mg/L

Rainbow trout, LC₅₀ (96 hr) = 7.2g/L

Fluroxypyr-meptyl:

Water flea, EC₅₀ (48 hr) = 0.183mg/L

Rainbow trout, LC₅₀ (96 hr) = 0.225mg/L

Triclopyr butoxyethyl ester:

Water flea, EC₅₀ (48 hr) = 1.7mg/L

Rainbow trout, LC₅₀ (96 hr) = 1.3mg/L

Bioaccumulation: Potential to bioaccumulate. Not readily biodegradable in water.

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Soil Toxicity: No data

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation: Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

Container Disposal: Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations.

DO NOT reuse containers.

Methods of disposal to avoid Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number: 3082

Dangerous Goods Class: Class 9

Hazchem Code: 3Y

Packaging Group: III

Proper Shipping Name: Environmentally Hazardous Substance, Liquid,
N.O.S (contains 15% 2,4-D ethyl hexyl ester)

Segregation: Class 1

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR101418

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GHS Classifications:	Acute Toxicity (oral) Cat. 4 Aspiration Toxicity Cat. 1 Skin Irritation Cat.2 Eye Irritation Cat. 2 Skin Sensitisation Cat. 1 Specific Target Organ Toxicity (repeated exposure) Cat 1. Aquatic Acute Cat 1. Aquatic Chronic Cat 1. Hazardous to soil organisms Hazardous to terrestrial vertebrates.
HSNO Controls:	Refer to HSR101418
ACVM Approval Code:	Not applicable
Additional Controls:	None

16. OTHER INFORMATION

SDS date of preparation: 16 / 06 / 2025

SDS date of revision: 16 / 06 / 2030

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare

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Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR:	European agreement concerning the international carriage of Dangerous goods by Road
CLP:	Classification Labelling and Packaging
EC:	European Commission
EU:	European Union
GHS:	Global Harmonized System
H Phrase:	Hazard Phrase
HSNO:	Hazardous Substances and New Organisms (1996) Act
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IMDG:	International Maritime Dangerous Goods
P Phrase:	Precautionary Phrase
RID:	Regulations concerning the International carriage of Dangerous good by rail
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average

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