

SAFETY DATA SHEET

Product Name: *Turf Clean & Green Rapid*

Print/View Date: 20/09/2021

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	Turf Clean & Green Rapid
Recommended uses:	Liquid Herbicide & Fertiliser
Restrictions on Use/Supply	<p>The maximum application rate of dichlorprop-p is 0.81 kg a.i./ha. The maximum application rate of MCPA is 0.42 kg a.i./ha. The maximum application rate of mecoprop-p is 0.34 kg a.i./ha.</p> <p>The maximum application frequency and minimum interval period of this substance must not be more than four times per calendar year with a minimum interval between applications of 30 days.</p> <p>The substance must not be applied onto or into water and may only be applied using ground-based equipment.</p>
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
Eye Irritant Cat 2	Not applicable for the UN RTDG Model Regulations		Warning	H319	P103 P264 P280	P305 + P351 + P338 P337 + P313	No storage statements	P501
Skin Sensitiser Cat 1	Not applicable for the UN RTDG Model Regulations		Warning	H317	P103 P261 P272 P280	P302 + P352 P333 + P313 P321 P363	No storage statements	P501
Aquatic Chronic Cat 3	Not applicable for the UN RTDG Model Regulations	No pictogram	No signal word	H412	P103 P273	No response statements	No storage statements	P501

Signal word:

WARNING

Dangerous Goods:

Not a Dangerous Goods

Packaging Group:

Not applicable: Packaging must comply with Part B, clause 8 – Hazardous Substances (Packaging) Notice 2017

GHS Codes:

Eye Irrit. 2

Skin Sens. 1

Aquatic Chronic. 3.

Pictograms:



Hazard Statement:

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H412: Harmful to the aquatic life with long-lasting effects.

Hazardous to the soil environment.

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Precautionary Statements:

P102: Keep out of reach of children
P103: Read label before use.
P261: Avoid breathing spray
P264: Wash thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P321: Specific treatment, read on the label.
P363: Wash contaminated clothing before reuse.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Brown transparent thin liquid

Ingredients

Ingredients	CAS #	Content %
Dichlorprop-p DMA	104786-87-0	< 1.00 %
MCPA DMA	2039-46-5	< 0.50%
Mecoprop-p DMA	66423-09-4	< 0.50%
Iron EDTA	15651-72-6	< 2.0%
Urea	57-13-6	≈ 40.0%
Other ingredients	NA (Mixture)	to 100 %

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4. FIRST AID MEASURES

General information:	In case of accident, or if you feel unwell, seek medical advice (show the label where possible).
Ingestion:	Rinse mouth. If feeling unwell, seek medical advice and have product label at hand.
Eye Contact:	Causes serious eye irritancy. Rinse opened eye for several minutes, remove contact lenses if present and easy to do, continue rinsing. If irritation persists, seek medical advice or call NZ Poisons Centre on 0800 764 766 and have product label at hand.
Skin Contact:	May cause an allergic skin reaction. Remove contaminated clothing and wash before reuse. Wash skin with soap and water. If you feel unwell seek medical advice.
Inhalation:	Unlikely to present an inhalation hazard. Avoid breathing mist or spray. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766 and have product label at hand.
Advice for Medical Doctors:	Treat symptomatically. Call NZ Poisons Centre on 0800 764 766 for additional advice.

5. FIRE FIGHTING MEASURES

HAZCHEM code:	2Y
Specific Hazards:	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.

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5. FIRE FIGHTING MEASURES

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:	Formation of toxic gases may occur if heated such as carbon monoxide, and other unidentified organic and inorganic compounds.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Use personal protective equipment. Avoid breathing mist or spray. Ensure adequate ventilation. For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and national regulations. Collect in an appropriate sealable container for disposal in an approved landfill.

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7. HANDLING AND STORAGE

Precautions for safe handling:	Read label before use Avoid prolonged or repeated contact with skin and eye. Avoid inhaling spray and mist. When handling product in drums, 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 in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. 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:	See 'Exposure Standards' below (Workplace Exposure Standards and Biological Exposure November 2020, edition 12-1)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	It is good practice to wear chemical resistant gloves. If repeated or prolonged contact wear chemical resistant gloves.
Eye protection:	If there is significant potential for contact, wear safety glasses or full face-shield.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	No special requirement 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. Minimise contact with the skin, eyes and clothing. Store work clothing separately.
Environmental Exposure Controls:	Minimise release to the environment. For bulk storage, an environmental assessment must be made to ensure compliance with local environmental legislation.

Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
NONE					

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Water	77A	The substance must not be applied onto or into water.
Additional label information	77A	The following information, or words to the same effect, must appear on the product label and documentation supplied with this substance: This substance must be applied using ground-based methods only.
Impurities	77A	The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 2,4-dichlorophenol) in the active ingredient dichlorprop-p used to manufacture this substance is 10 g/kg. The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 4-chloro-2-methylphenol) in the active ingredient mecoprop-p used to manufacture this substance is 10 g/kg. The maximum concentration of the toxicologically relevant impurity free phenols (calculated as 4-chloro-2-methylphenol) in the active ingredient MCPA used to manufacture this substance is 10 g/kg.
Application method	77A	This substance must be applied using ground-based methods only

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown transparent thin liquid
Odour:	Mild odour
Odour Threshold:	No data
pH Value:	6 - 8
Melting/freezing point:	No data
Boiling point (range):	No data
Flash Point:	>100 °C
Flammability:	Not applicable
Explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	1120 - 1140 g/l
Solubility:	Soluble
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.
Chemical/material Incompatibilities	Avoid strong oxidising agents. Not corrosive.
Conditions to be avoid:	Avoid excessive heating.

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10. STABILITY AND REACTIVITY

Thermal Decomposition: Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

GHS Hazard Classes	Eye Irritant. Category 2. Skin Sensitiser. Category 1. Aquatic Chronic. Category 3.
Acute Toxicity:	Mecoprop-p salt (CAS 7085-19-0) <ul style="list-style-type: none">LD₅₀ (oral) rat = 431 ppm; LD₅₀ (dermal) rabbit = 900 ppm; LC₅₀ (inhalation, 4h) rat > 12.5 ppm MCPA salt (CAS 16484-77-8) <ul style="list-style-type: none">LD₅₀ (oral) rat = 700 ppm; LD₅₀ (dermal) rat > 4000 ppm; LC₅₀ (inhalation, 4h) rat > 6.4 ppm Dichlorprop-p salt (CAS 15165-67-0) <ul style="list-style-type: none">LD₅₀ (oral) rat = 615 ppm; LD₅₀ (dermal) rat > 4000 ppm; LC₅₀ (inhalation, 4h) rat = 10.6 ppm
Aspiration hazard	Not classified as an aspiration hazard.
Skin corrosion/irritation:	Repeated or prolonged exposure may cause an allergic skin reaction.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause respiratory irritation from breathing mist or spray.
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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11. TOXICOLOGICAL INFORMATION

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: No data available

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: Hazardous to the aquatic environment with long-lasting effects: 10 mg/L < EC₅₀/LC₅₀ < 100 mg/L.

Mecoprop-p salt (CAS 7085-19-0)

- Acute 96h EC₅₀ (fish) = >93 ppm; Acute 48h EC₅₀ (aquatic invertebrates) = >91 ppm; Contact acute LD₅₀ (bee) >83 ug per bee.

MCPA salt (CAS 16484-77-8)

- Acute 96h EC₅₀ (fish) = >72 ppm; Acute 48h EC₅₀ (aquatic invertebrates) = >190 ppm; Contact acute LD₅₀ (bee) >200 ug per bee.

Dichlorprop-p salt (CAS 15165-67-0)

- Acute 96h EC₅₀ (fish) = >109 ppm; Acute 48h EC₅₀ (aquatic invertebrates) = >100 ppm; Contact acute LD₅₀ (bee) >200 ug per bee.

Bioaccumulation potential: Low based on properties of each active

Soil Toxicity and degradability: Hazardous to the soil environment.
Exposure of non-target animals should be prevented.

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12. ECOTOXICITY INFORMATION

Mobility in soil Moderate to high mobility potential. Soil DT₅₀ 5-24 days for actives.

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: Not applicable
UN Dangerous Goods Class: No restriction for transport.
Hazchem Code: Not applicable
UN Packaging Group: Not applicable
UN Proper Shipping Name: Not applicable
Segregation: Not applicable

15. N.Z. REGULATORY INFORMATION

HSNO approval Number: HSR101236

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15. N.Z. REGULATORY INFORMATION

GHS Classifications:	Eye Irritant. Category 2. Skin Sensitiser. Category 1. Aquatic Chronic. Category 3. Hazardous to the soil environment.
HSNO Controls:	Refer to HSR101236
Other Controls	Not applicable

16. OTHER INFORMATION

SDS date of preparation: 20 / 09 / 2021

SDS date of revision: 20 / 09 / 2026

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

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Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by Road.

CLP: Classification, Labelling and Packaging

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time Weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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