

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 1 of 12

1. PRODUCT AND COMPANY INFORMATION

Product Name:	LawnPro Mossclear Concentrate
Relevant identified uses:	Herbicide containing > 40% Dichlorophen Na salt
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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SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 2 of 12

2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.1E (oral)	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H303	P102 ^b P103*	P101 ^b P312	No storage statements	P501
8.1A			Warning	H290	P102 ^b P103 ^b P234	P101 ^b P390	P406	P501
8.2C			Danger	H314	P102 ^b P103 ^b P260 P264 P280	P101 ^b P301 + P330 + P331 P303 + P361 + P353 P363 P304 + P340 P310 P321 P305 + P351 + P338	P405	P501
8.3A	Not applicable for the UN RTDG Model Regulations		Danger	H318	P102 ^b P103 ^b P280	P101 ^b P305 + P351 + P338 P310	No storage statements	P501
9.1A			Warning	H400/H410 ^m	P103 ^b P273	P391	No storage statements	P501

Dangerous Goods:

Class 8 Corrosive liquid. Signal word = Danger

Packaging Group:

III

Hazardous Substance (HSNO) Codes:

6.1E (May be harmful if swallowed)

8.1A (Metal corrosive)

8.2C (Skin corrosive)

8.3A (Eye corrosive)

9.1A (Very ecotoxic to aquatic environment)

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SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 3 of 12

Hazard Statement:	<p>H290: May be corrosive to metals.</p> <p>H303: May be harmful if swallowed.</p> <p>H314: Causes skin corrosive.</p> <p>H318: Causes eye damage.</p> <p>H400/410: Very toxic to aquatic life with long lasting effects.</p>
Precautionary Statements:	<p>P101: If medical advice is needed, have product container or label at hand.</p> <p>P102: Keep out of reach of children.</p> <p>P103: Read label before use.</p> <p>P234: Keep only in original container.</p> <p>P260: Do not breathe spray.</p> <p>P264: Wash thoroughly after handling.</p> <p>P273: Avoid release to the environment.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321: Specific treatment on the label.</p> <p>P390: Absorb spillage to prevent material damage.</p> <p>P391: Collect spillage.</p> <p>P310: Immediately call a POISON CENTER or doctor/physician.</p> <p>P363: Wash contaminated clothing before reuse.</p> <p>P405: Store locked up.</p> <p>P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.</p> <p>P304+340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</p>

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SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date:20/06/2018

Page 4 of 12

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P406: Store in corrosive resistant container with a resistant inner liner.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Ready to mix herbicide

Appearance: Dark Brown transparent thin liquid

Ingredients

Ingredients	CAS #	Content %
Dichlorophen Sodium salt	97-23-4	>40 %
Water	7732-18-5	>50 %

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 harmful if swallowed. Rinse mouth. Do NOT induce vomiting. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Eye Contact: Potentially cause eye damage. Rinse opened eye for several minutes under running water. If irritation persists seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 5 of 12

4. FIRST AID MEASURES

Skin Contact:	Potentially cause skin corrosion. Rinse skin with copious amounts of water and wash with soap and water. If you feel unwell seek immediate medical advice.
Inhalation:	If symptoms develop move the exposed person to fresh air. Immediately obtain medical advice. Unlikely to present an inhalation hazard. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.
Advice for Medical Doctors:	Treat symptomatically. Call a doctor or poison control centre for guidance, or call NZ Poisons Centre on 0800 764 766.

5. FIRE FIGHTING MEASURES

Specific Hazards:	Formation of toxic gases may occur if heated such as carbon monoxide, and other unidentified organic and inorganic compounds.
Suitable Extinguishing Media:	Keep fire exposed containers cool by spraying with water. Appropriate fire extinguishers are 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). Keep unnecessary people away and move all other personnel to windward side of fire. 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.

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 6 of 12

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Wear protective clothing. Clear area of unprotected personnel. 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 or incinerate at an authorised installation.

7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid prolonged or repeated contact with skin and eye. Avoid inhaling spray. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Keep away from sources of ignition – No smoking, eating or drinking while handling this product. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking or smoking. Read the label before use.
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. Do not allow product to get wet in storage.
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.

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SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 7 of 12

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 th edition)
Engineering Controls:	General ventilation. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.
Hand protection:	Suitable chemical resistant gloves are recommended for applicants.
Eye protection:	Wear safety glasses or full face shield if splashes are likely to occur.
Body protection:	Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots. Skin protection not ordinarily required beyond standard issue work clothes. It is good practice to wear chemical resistant gloves.
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. Store work clothing separately.
Environmental Exposure Controls:	Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

S	Substance	CAS #	TWA		STEL	
			ppm	mg/m ³	ppm	mg/m ³
	Sodium hydroxide	[1310-73-2]		Ceiling 2		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Dark Brown transparent thin liquid
Solubility:	Soluble

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 8 of 12

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity:	1.14 – 1.16 Kg/L
Flash Point:	>93 °C
pH Value:	11.5 – 13.0
Formula:	Mixture
Chemical Family:	Herbicide; containing Dichlorophen Na salt.
Oxidising Agents:	Not an oxidant
Basicity:	React with some metals (i.e. Aluminium)
Exposure Standards (TLV-TW):	Refer to section 8
Engineering Controls:	Refer to section 8

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	React with some metals due to its high PH value. Not explosive or oxidising.
Incompatibility or conditions to be avoid:	Avoid strong oxidising and acidic agents. Avoid heat, sparks and open flame.
Corrosive Properties:	Potentially corrosive to metal, eyes and skin.
Thermal Decomposition:	The formation of toxic/irritant gases/vapours may occur if heated.

11. TOXICOLOGICAL INFORMATION

The relevant hazard classes on ingredient:

Dichlorophen (97-23-4):	HSNO 6.1D; 6.4A; 9.1A; 9.3C
NaOH (1310-73-2):	HSNO 6.1D; 8.1A; 8.2B; 8.3A; 9.1D; 9.3C

For the substance (final product):

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 9 of 12

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation:	May cause skin corrosion. (8.2C)
Serious eye damage/eye irritation:	May cause eye damage. (8.3A)
Respiratory or skin sensitization:	Unlikely to cause skin sensitization.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductivity:	Not a reproductive toxicant.
Acute Toxicity:	Acute oral $2000 < LD_{50} \leq 5000$ mg/kg (rat)
Chronic Toxicity:	No chronic toxicity.

12. ECOTOXICITY INFORMATION

Ecological information of substance:	9.1A: Very ecotoxic to aquatic system. $EC_{50}/LC_{50} \leq 1$ mg/L
Bioaccumulation:	Not likely to be Bioaccumulative
Soil Toxicity:	No soil toxicity

The substance triggers 9.1A classification. However, as the product label indicated that this product is not allowed or washings to enter the waterways or sewer and with other appropriate controls. Therefore it is highly unlikely to be hazardous to the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.
Container Disposal:	Empty containers can be sent to landfill after cleaning if in compliance with local and national regulations.

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 10 of 12

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number:	3267
Dangerous Goods Class:	Class 8
Hazchem Code:	2X
Packaging Group:	III
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Segregation:	Keep in a corrosive material containment.

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number:	HSR000444
HSNO Classifications:	6.1E (May be harmful if swallowed) 8.1A (Metal corrosive) 8.2C (Skin corrosive) 8.3A (Eye corrosive) 9.1A (Very ecotoxic to aquatic environment)
HSNO Controls:	Refer to HSR000444
HSNO Approved codes of Practice:	Refer to HSR000444

To avoid risks to man and the environment, comply with the instructions for use.

This information should be considered when making any hazard assessment.

Classification and labelling according to Regulation:

(EC) No 1272/2008 [EU-GHS/CLP]

16. OTHER INFORMATION

SDS date of preparation: 29 / 06 / 2017

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SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 11 of 12

16. OTHER INFORMATION

SDS date of revision:	29 / 06 / 2022
Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

We are Kiwis providing expert local solutions that keep your place pest free and your garden healthy.

SAFETY DATA SHEET

Product Name: LawnPro Mossclear Concentrate

Issue Date: 20/06/2018

Page 12 of 12

16. OTHER INFORMATION

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.

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.

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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