



LandMan Limited

## SAFETY DATA SHEET

### CUT'N'PASTE LAWN RAIDER

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	Cut'n'Paste Lawn Raider
<b>Product Code</b>	-
<b>Other Names</b>	-
<b>Product Type</b>	Herbicide
<b>Recommended Use</b>	For control of a broad range of plant pests by direct application of the undiluted product.
<b>Company Name</b>	LandMan Limited
<b>Address</b>	16 Hobson Terrace Waiheke Island Auckland 1081 New Zealand
<b>Telephone Number</b>	0064 9 372 9333
<b>Emergency Telephone</b>	021 027 11631

#### 2. HAZARDS IDENTIFICATION

<b>Hazard Classifications</b>	Not classified as Dangerous Goods according to the LTSA New Zealand.
<b>Other Information</b>	9.1D aquatic toxicant ECOTOXIC Slightly harmful to aquatic organisms. Non-selective herbicide - very toxic to most plant species.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Characterization</b>	Gel	
<b>Ingredient (common name)</b>	<b>CAS Number</b>	<b>Proportion</b>
Glyphosate present as the isopropylamine salts	38641-94-0	25g/L
Alkyl polyglucoside surfactants	Proprietary	3-10%
Ingredient deemed not to be hazardous	Proprietary	23 g/L
Water	7732-18-5	Balance

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
-------------------	---



## SAFETY DATA SHEET

<b>Ingestion</b>	If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>Skin</b>	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms occur.
<b>Eyes</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Seek medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Water fog, carbon dioxide, dry chemical or foam.
<b>Hazardous Combustion Products</b>	Oxides of nitrogen or phosphorus.
<b>Firefighting Equipment</b>	Fire fighters should wear butyl rubber boots, gloves and body suit and a self-contained breathing apparatus.
<b>Unusual Fire or Explosion Hazards</b>	This product will not burn. This product will react with mild or galvanized steel to produce highly flammable and explosive hydrogen gas.
<b>Hazchem Code</b>	Not applicable

### 6. ACCIDENTAL RELEASE MEASURES

<b>Spills</b>	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection and impervious elbow-length gloves. Evacuate general area and deny access to unnecessary and unprotected personnel. Stop leak if safe to do so and contain spill. Absorb with sand, soil or other absorbent material. Collect the material and place into clearly labeled containers for subsequent disposal in an approved landfill.
---------------	--

### 7. HANDLING AND STORAGE

<b>Handling</b>	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. <b>Approved handler:</b> Not applicable <b>Tracking:</b> Not applicable
<b>Storage</b>	Store in a cool, dry, well-ventilated area away from foodstuffs,



LandMan Limited

## SAFETY DATA SHEET

fertilisers and seeds. Keep containers tightly closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Standards</b>	None established for formulated product.
<b>Engineering Controls</b>	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator or organic vapour cartridge mask should be used. See Australian / New Zealand Standards AS/NZS 1715 and 1716 for more information.
<b>Eye Protection</b>	Safety goggles. See Australian / New Zealand Standards AS/NZS 1337 for more information.
<b>Skin Protection</b>	Impermeable nitrile gloves, suitable protective work wear and boots. See Australian / New Zealand Standards AS/NZS 2210 for more information.
<b>Hygienic Practices</b>	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear light amber gel
<b>Odour</b>	Faint detergent odour
<b>Solubility in water</b>	Soluble
<b>pH</b>	5.3-5.6
<b>Boiling Point / Range</b>	105°C
<b>Freezing Point / Range</b>	-10°C
<b>Evaporation Rate</b>	No information available
<b>Vapour Density (Air = 1)</b>	No information available
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.35
<b>Flash Point</b>	None
<b>Flammable Limit – Lower</b>	Not flammable
<b>Flammable Limit – Upper</b>	Not flammable

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Incompatible Materials</b>	Corrosive to mild steel, galvanized steel and zinc.



LandMan Limited

## SAFETY DATA SHEET

<b>Hazardous Decomposition Products</b>	Non corrosive to stainless steel, plastics and polyethylene. Oxides of nitrogen or phosphorus. This product will react with mild or galvanized steel to produce highly flammable and explosive hydrogen gas.
<b>Hazardous Polymerization Conditions to Avoid</b>	Will not occur. None known.

### 11. TOXICOLOGICAL INFORMATION

<b>Toxicity:</b>	<b>Glyphosate as the isopropylamine salt:</b> Oral LD <sub>50</sub> (rat) = 4050 mg/kg Dermal LD <sub>50</sub> (rabbit) > 5000 mg/kg Inhalation LC <sub>50</sub> (rat) > 1.3 mg/L / 4 hour <b>Reproductive toxicity – No</b> <b>Mutagenicity – No</b>
<b>Routes of Exposure</b>	Ingestion, eye and skin
<b>Health effects from likely routes of exposure</b>	Ingestion: No effects anticipated. Eye: May cause mild eye irritation. Skin: No effects anticipated.
<b>Effects of Overexposure Existing Conditions Aggravated by Exposure Carcinogenicity</b>	No chronic effects expected. None known.  This product does not contain any IARC listed chemicals.

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<b>Glyphosate as the isopropylamine salt:</b> <b>Aquatic organisms:</b> LC50 (Rainbow trout) 96hr = 8.2 – 26 mg/L LC50 (Bluegill sunfish) 96hr = 5.8 - 14 mg/L LC50 (Carp) 96hr = 19.7 mg/L EC50 (Daphnia magna) 48hr = 480 mg/L Slightly harmful to fish and other aquatic organisms (mainly due to the surfactant). <b>Birds:</b> LD50 (Bobwhite quail) > 3850 mg/kg Not toxic to birds. <b>Bees:</b> LD50 > 100µg/bee Not toxic to bees.
<b>Mobility</b>	Adsorption studies indicate that glyphosate has very low mobility. Average field half life of glyphosate is 47 days. Glyphosate is strongly adsorbed by soil and therefore becomes practically



## SAFETY DATA SHEET

immobile. Microbial degradation is the major cause of loss from soil with liberation of carbon dioxide. Glyphosate is not bio-accumulative.

### 13. DISPOSAL CONSIDERATIONS

**Product disposal** Dispose of product according to the label, or at an approved landfill.  
**Container disposal** Dispose of container according to the label, or at an approved landfill.

### 14. TRANSPORT INFORMATION

Not classified as a dangerous good according to Land Transport Rule: Dangerous Goods 2005

**UN Number** Not applicable  
**Proper Shipping Name** Not applicable  
**Dangerous Goods Class** Not applicable  
**Hazchem Code** Not applicable  
**Packing Group** Not applicable  
**Special Precautions** Not applicable

**Other Information** **Segregation:**  
Check the latest Land Transport Rule: Dangerous Goods 2005 Rule 45001 for additional information.  
Refer NZS5433 - Sea segregation for details.

### 15. REGULATORY INFORMATION

Approved pursuant to the HSNO Act 1996, HSR 100736  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls

### 16. OTHER INFORMATION

**Last Revision of MSDS** Rev 1.0 (09/10/2012)  
**Prepared by** MSDS.COM.AU Pty Ltd [www.msds.co.nz](http://www.msds.co.nz)  
**Abbreviations Used** IARC: International Agency for Research on Cancer  
HSNO: Hazardous Substances and New Organisms  
STEL: Short term exposure limit  
TWA: Time weighted average



**LandMan Limited**

## **SAFETY DATA SHEET**

---

### **Emergency Contacts**

<b>LandMan Limited</b>	<b>0064 9 372 9333</b>
<b>LandMan Limited – Emergency Number</b>	<b>021 027 11631</b>
<b>Police and Fire Brigade</b>	<b>111</b>
<b>Poisons Information Centre</b>	<b>0800 764 766</b>

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. LandMan Limited makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

Please read instructions / label before using product.